1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name: 824-0705 CHROMA-CHEM® TOLUIDINE RED
Use of the Substance / Preparation: Non-aqueous colorant
Company: Evonik Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054
USA

Telephone: 973-541-8000
Telefax: 973-541-8040

US: CHEMTREC EMERGENCY NUMBER: 800-424-9300
CANADA: CANUTEC EMERGENCY NUMBER: 613-996-6666
Product Regulatory Services: 973-541-8060

2. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-paste  Color-red  Odor-Petroleum distillate odor.

Combustible liquid and vapor.
May cause eye, skin and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

Eye contact
According to test results on similar colorant base mixtures, this product is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

Skin Contact
Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis (rash).
Moderate irritant according to test results on similar base mixtures.

Inhalation
Possibly irritating.
Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even death.
Ingestion  
May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic Health Hazard**  
Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.  
Inhalation of high dust levels of barium sulfate may cause baritosis, an irritation of the lung tissue which is not incapacitating and usually is reversible.  
Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Information on ingredients / Hazardous components**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Percent (Wt./ Wt.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJTSR No.56705700001-5791P</td>
<td>Trade Secret</td>
<td>30 - 60 %</td>
</tr>
<tr>
<td>Stoddard solvent; Low boiling point naphtha - unspecified</td>
<td>8052-41-3</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7727-43-7</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light; Kerosine - unspecified</td>
<td>64742-47-8</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

**Other information**

This material is classified as hazardous under OSHA regulations.

### 4. FIRST AID MEASURES

**Inhalation**
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

**Skin contact**
Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

**Eye contact**
In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

**Ingestion**
Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal.  
If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.
5. FIRE-FIGHTING MEASURES

Flash point 38.33 °C, 101 °F
Method: Pensky-Martens C.C.

OSHA Flammability Classification Combustible Liquid

Suitable extinguishing media
Use water spray or fog, foam, dry chemical or CO2.

Specific hazards during fire fighting
Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Further information
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Additional advice
Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

7. HANDLING AND STORAGE

Handling
Safe handling advice
Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage
Requirements for storage areas and containers
Keep in a dry, cool place.
Keep container closed when not in use.
Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines
• Stoddard solvent; Low boiling point naphtha - unspecified

CAS-No. 8052-41-3
Control parameters
- 100 ppm
- 500 ppm
- 2900 mg/m³
- 100 ppm
- 525 mg/m³

Time Weighted Average (TWA): (ACGIH)
PEL: (OSHA Z1)

- 100 ppm
- 525 mg/m³
Time Weighted Average (TWA)
Permissible Exposure Limit (PEL): (US CA OEL)

• Distillates (petroleum), hydrotreated light; Kerosine - unspecified

CAS-No. 64742-47-8
Control parameters
- 200 mg/m³

Time Weighted Average (TWA): (ACGIH)
Non-aerosol.
P: Application restricted to conditions in which there are negligible aerosol exposures.

as total hydrocarbon vapor
Non-aerosol.
Can be absorbed through the skin.

200 mg/m³
Time Weighted Average (TWA): (ACGIH)
Non-aerosol.

as total hydrocarbon vapor
Non-aerosol.
Can be absorbed through the skin.

• Barium sulfate

CAS-No. 7727-43-7
Control parameters
- 10 mg/m³
- 5 mg/m³

Time Weighted Average (TWA): (ACGIH)
PEL: (OSHA Z1)

Respirable fraction.

15 mg/m³
Total dust.

0.5 mg/m³ as Ba
Time Weighted Average (TWA)
Permissible Exposure Limit (PEL): (US CA OEL)

Other information
Exposure values for mineral spirits (CAS Nr 8052-41-3) are given as Stoddard solvent.
Exposure values for Aliphatic petroleum distillates (CAS nr 64742-47-8) are given as Stoddard solvent.

Engineering measures
Use explosion-proof ventilation equipment.
Personal protective equipment

Respiratory protection
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH’s “Respirator Decision Logic” may be useful in determining the suitability of various types of respirators.

Hand protection
Use impermeable gloves.

Eye protection
Chemical resistant goggles must be worn.

Skin and body protection
A safety shower and eye wash fountain should be readily available.
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form  paste
Color  red
Odor  Petroleum distillate odor.

Safety data
Boiling point/range  > 149 °C
Flash point  38.33 °C
Method Pensky-Martens C.C.
Relative density  1.1
Solubility/qualitative  Solubility in water: Slight.
Viscosity, dynamic  89 - 109 KU (25 °C)
Solvents and Volatiles Data
% VOC (gm/l)  279.48
Evaporation rate  Slower than butyl acetate

10. STABILITY AND REACTIVITY

Conditions to avoid  Avoid high temperatures and sources of ignition.
Materials to avoid  oxidizing substances
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute oral toxicity</th>
<th>NJTSR No.56705700001-5791P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trade Secret</td>
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</tr>
<tr>
<td></td>
<td>LD50 Rat:</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Rat:</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Rat:</td>
<td>&gt; 15000 mg/kg</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute inhalation toxicity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3</td>
</tr>
<tr>
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<td>LC50 Rat:</td>
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<td></td>
<td>LC50 Rat:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute dermal toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3</td>
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<tr>
<td></td>
<td>LD50 Rabbit:</td>
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<td></td>
<td>Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8</td>
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<tr>
<td></td>
<td>LD50 Rabbit:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>General Toxicity Information</th>
<th>NJTSR No.56705700001-5791P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trade Secret</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The National Toxicology Program has found some evidence of carcinogenic activity in animal testing of Pigment NJTSR No. 5791P, but does not list this substance as a carcinogen.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Barium sulfate</td>
<td>7727-43-7</td>
</tr>
<tr>
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<td>Inhalation of high dust levels of barium sulfate may cause baritosis, an irritation of the lung tissue which is not incapacitating and usually is reversible.</td>
<td></td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

General Ecological Information: No ecotoxicological studies are available.
13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Waste must be disposed of in accordance with federal, state, provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free-flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash. Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with mineral spirits until the containers are considered generally product free.

14. TRANSPORT INFORMATION

Sea transport IMDG-Code

| Class | 3 |
| UN-No | 1263 |
| Packaging group | III |
| EmS | F-E, S-E |
| Proper technical name (Proper shipping name) | PAINT RELATED MATERIAL |

Air transport ICAO-TI/IATA-DGR

| Class | 3 |
| UN-No | 1263 |
| Packaging group | III |
| Proper technical name (Proper shipping name) | Paint related material |

Loading instructions/Remarks

| IATA_C | ERG-Code 3L |
| IATA_P | ERG-Code 3L |
| CFR_INWTR | In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only. |
| CFR_RAIL | In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only. |
| CFR_ROAD | In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only. |
15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components:

- **NJTSR No. 56705700001-5068P**
  - CAS-No.
  - Trade Secret
  - Percent (Wt./ Wt.)
  - 1 - 5 %

- **NJTSR No. 56705700001-5069P**
  - CAS-No.
  - Trade Secret
  - Percent (Wt./ Wt.)
  - 10 - 30 %

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are 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:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed
State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- Europe (EINECS/ELINCS) Listed/registered
- USA (TSCA) Listed/registered
- Canada (DSL) Listed/registered
- Australia (AICS) Listed/registered
- Japan (MITI) Not listed/Not registered
- Korea (TCCL) Listed/registered
- Philippines (PICCS) Listed/registered
- China Not listed/Not registered

16. OTHER INFORMATION

HMIS Ratings

Health : 2
Flammability : 2
Physical Hazard : 0

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.