

# Material Safety Data Sheet

**Kodak Polychrome**  
G R A P H I C S

## R Scratch Remover

### 1. Chemical Product and Company Identification

Common Name : R Scratch Remover

Synonym : 0715276; 74000015276

Catalog number : 1777580

Area of Application : Industrial applications. Graphic Arts Imaging.

Supplier : Kodak Polychrome Graphics  
401 Merrit 7  
Norwalk, CT 06851  
USA  
Tel. (203) 845-7000

Emergency telephone number : In Case of Emergency (medical/roadside) (24hrs)

For other EHS Information : Kodak Polychrome Graphics, Environmental, Health, & Safety Department;  
11465 Johns Creek Parkway, #260, Duluth, GA 30097; USA  
Phone: 1-877-574-7274, Additional phone: (770) 232-2133  
E-mail: PEP@kpgraphics.com, Fax: (770) 232-2150

|                  |                           |
|------------------|---------------------------|
| MSDS#            | 419                       |
| Version          | 2.52                      |
| Validation Date  | 2004-06-01                |
| Responsible Name | Kodak Polychrome Graphics |

KPG# 70161

**CALL 1-800-451-8346**

### 2. Composition, Information on Ingredients

| Name                                     | CAS #     | % by Weight | Exposure Limits  |
|--|-----------|-------------|--|
| 1) Water                                 | 7732-18-5 | 65-70       | Not available.   |
| 2) Stoddard solvent                      | 8052-41-3 | 25-30       | <b>NOM-010-STPS (Mexico, 1999).</b><br>STEL: 1050 mg/m <sup>3</sup> 15 minute(s).<br>TWA: 523 mg/m <sup>3</sup> 8 hour(s).<br><b>ACGIH (United States, 2002).</b><br>TWA: 525 mg/m <sup>3</sup> 8 hour(s).<br><b>NIOSH (United States, 1994).</b><br>STEL: 1800 mg/m <sup>3</sup> 15 minute(s).<br>TWA: 350 mg/m <sup>3</sup> 8 hour(s).<br><b>OSHA (United States, 2001).</b><br>TWA: 2900 mg/m <sup>3</sup> 8 hour(s).<br>Not available. |
| 3) Sodium silicate                       | 1344-09-8 | 1-5         | <b>ACGIH TLV (United States, 2002).</b><br>CEIL: 2 mg/m <sup>3</sup>   |
| 4) Potassium hydroxide                   | 1310-58-3 | 1-5         | <b>NIOSH REL (United States, 1994).</b><br>TWA: 2 mg/m <sup>3</sup> 10 hour(s).<br>Not available.  |
| 5) Nonylphenol polyethylene glycol ether | 9016-45-9 | <1          | Not available.   |

### 3. Hazards Identification

Physical State and Appearance : Liquid. (Emulsion liquid.)

Emergency Overview : DANGER!  
CAUSES EYE BURNS.  
COMBUSTIBLE LIQUID AND VAPOR.  
NOTICE!  
DELIBERATE CONCENTRATION AND INHALATION OF VAPORS MAY BE HARMFUL OR FATAL.  
MAY BE HARMFUL IF SWALLOWED.  
CAUSES SKIN IRRITATION OR BURNS.  
HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT.  
CAN CAUSE CNS EFFECTS.

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Keep away from heat, sparks and flame. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid prolonged or repeated breathing of mist or vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Routes of Entry** : Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Potential Acute Health Effects**

**Eyes** : Causes burns. High vapor concentrations may cause irritation.

**Skin** : Causes irritation or burns.

**Inhalation** : High vapor concentrations may cause drowsiness and irritation. Deliberate concentration and inhalation of vapors may be harmful or fatal.

**Ingestion** : May be harmful if swallowed.  
May cause gastrointestinal irritation.  
Aspiration hazard if swallowed- can enter lungs and cause damage.

**Potential Chronic Health Effects** : **CARCINOGENIC EFFECTS:** Not available.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.

**Medical Conditions Aggravated by Overexposure:** : Repeated or prolonged exposure is not known to aggravate medical condition.

See Toxicological Information (section 11)

## 4. First Aid Measures

**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

**Inhalation** : Allow the victim to rest in a well-ventilated area. If irritation persists, get medical attention.

**Ingestion** : Do not induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

**Notes to Physician** : Strong alkalis bind tissue protein. Following initial flushing of the eye with water, continued irrigation of the eye with saline solution is recommended. Treatment should be continued until pH of tears reaches neutral.

## 5. Fire Fighting Measures

**Flammability of the Product** : COMBUSTIBLE.

**Auto-Ignition Temperature** : Not available.

**Flash Points** : Closed cup: 51.7°C (125°F). (Setaflash.)

**Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances** : Not available.

**Explosion Hazards in Presence of Various Substances** : Risks of explosion of the product in presence of mechanical impact: Not available.  
Risks of explosion of the product in presence of static discharge: Not available.

- Fire Fighting Media and Instructions** : Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray. Cool closed containers exposed to fire with water.
- Protective Clothing (Fire)** : Wear special protective clothing and positive pressure, self-contained breathing apparatus.

## 6. Accidental Release Measures

- Small Spill and Leak** : Eliminate all ignition sources. Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- Large Spill and Leak** : Eliminate all ignition sources. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## 7. Handling and Storage

- Handling** : Keep away from heat and flame. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid prolonged or repeated breathing of mist or vapor. Use with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep container closed. Keep away from sources of ignition. Store at room temperature 25°C (77°F) or lower. Prevent from freezing.

## 8. Exposure Controls, Personal Protection

- Engineering Controls** : Use good general ventilation(>10 air changes/hour) and engineering controls (local exhaust, filter's, process enclosures if necessary) to maintain airborne levels below ACGIH Threshold Limit Values (TLV) and OSHA Permissible Exposure Limits(PEL). Ensure that eyewash station and safety shower is proximal to the work-station location.

### Personal Protection

- Eyes** : Safety glasses with side shields.
- Body** : Synthetic apron.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate.
- Hands** : Impervious gloves.
- Feet** : Not applicable.

### Protective Clothing (Pictograms)

- Personal Protection in Case of a Large Spill** : Splash goggles. Lab coat. Impervious gloves. Ventilation is normally required when handling or using this product.

### Product Name

- 1) Water
- 2) Stoddard solvent

### Exposure Limits

- Not available.
- NOM-010-STPS (Mexico, 1999).**  
STEL: 1050 mg/m<sup>3</sup> 15 minute(s).  
TWA: 523 mg/m<sup>3</sup> 8 hour(s).
- ACGIH (United States, 2002).**  
TWA: 525 mg/m<sup>3</sup> 8 hour(s).
- NIOSH (United States, 1994).**  
STEL: 1800 mg/m<sup>3</sup> 15 minute(s).  
TWA: 350 mg/m<sup>3</sup> 8 hour(s).
- OSHA (United States, 2001).**  
TWA: 2900 mg/m<sup>3</sup> 8 hour(s).
- Not available.
- ACGIH TLV (United States, 2002).**  
CEIL: 2 mg/m<sup>3</sup>
- NIOSH REL (United States, 1994).**  
TWA: 2 mg/m<sup>3</sup> 10 hour(s).
- Not available.

- 3) Sodium silicate
- 4) Potassium hydroxide
- 5) Nonylphenol polyethylene glycol ether

Consult local authorities for acceptable exposure limits.

## 9. Physical and Chemical Properties

|                                      |                                       |              |                      |
|--------------------------------------|---------------------------------------|--------------|----------------------|
| <b>Physical State and Appearance</b> | : Liquid. (Emulsion liquid.)          | <b>Odor</b>  | : Solvent. (Slight.) |
|                                      |                                       | <b>Color</b> | : White. Milky.      |
| <b>pH</b>                            | : 12.5 [Basic.]                       |              |                      |
| <b>Boiling/Condensation Point</b>    | : >95°C (203°F)                       |              |                      |
| <b>Melting/Freezing Point</b>        | : Not available.                      |              |                      |
| <b>Specific Gravity</b>              | : 0.93 (Water = 1)                    |              |                      |
| <b>Vapor Pressure</b>                | : 2.8 kPa (21 mm Hg) (at 20°C)        |              |                      |
| <b>Vapor Density</b>                 | : Not available.                      |              |                      |
| <b>Volatility</b>                    | : 90% (w/w).                          |              |                      |
| <b>VOC by EPA Method 24</b>          | : Not available.                      |              |                      |
| <b>VOC Calculated</b>                | : Not available.                      |              |                      |
| <b>Dispersion Properties</b>         | : Dispersed in cold water.            |              |                      |
| <b>Solubility</b>                    | : See dispersion properties in water. |              |                      |

## 10. Stability and Reactivity

|  |  |
|--|--|
| <b>Stability and Reactivity</b>                | : The product is stable.                                   |
| <b>Conditions of Instability</b>               | : Not available.   |
| <b>Incompatibility with Various Substances</b> | : Strong oxidizing agents, strong acids.                   |
| <b>Hazardous Decomposition Products</b>        | : These products are carbon oxides (CO, CO <sub>2</sub> ). |
| <b>Hazardous Polymerization</b>                | : Will not occur.  |

## 11. Toxicological Information

|                                  |   |
|----------------------------------|---|
| <b>Toxicity to Animals</b>       | : <b>Water:</b><br>ORAL (LD50): Acute: >90000 mg/kg [Rat].  |
|                                  | : <b>Stoddard solvent:</b><br>ORAL (LD50): Acute: >4000 mg/kg [Rat].<br>DERMAL (LD50): Acute: >2000 mg/kg [Rabbit]. |
|                                  | : <b>Sodium silicate:</b><br>ORAL (LD50): Acute: 1280 mg/kg [Rat].  |
|                                  | : <b>Potassium hydroxide:</b><br>ORAL (LD50): Acute: 273 mg/kg [Rat].   |
|                                  | : <b>Nonylphenol polyethylene glycol ether:</b><br>ORAL (LD50): Acute: >500 mg/kg [Rat].                            |
| <b>Chronic Effects on Humans</b> | : Not available.  |

**Other Toxic Effects on Humans** : Hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive), of ingestion, of inhalation.

## 12. Ecological Information

**Organics Readily Degradable (70%)** : Not available.

**Ecotoxicity** : Ecotoxicity in water (LC50): 1800 mg/l, 96 hours [Fish (Mosquitofish (Gambusia affinis))]. (Sodium silicate). 28.6 mg/l, 96 hours [Fish]. (Potassium hydroxide).

## 13. Disposal Considerations

**Waste Information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

## 14. Transport Information

**DOT Classification** : Class 3: Flammable liquid.  
Class 8: Corrosive liquid.



**Proper Shipping Name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Stoddard solvent, Potassium hydroxide)

**UN number** : UN2924

**Packing group** : III

**Marine Pollutant** : Not pollutant.

**TDG Classification** : Class 3: Flammable liquid.  
Class 8: Corrosive liquid.

**ADR/RID Classification** : ADR Class: Flammable liquid with a flash point between 21°C (70°F) and 100°C (212°F).  
ADR Class 8: Corrosive liquid.

**IMO/IMDG Classification** : IMDG Class 3: Flammable liquid.  
IMDG Class 8: Corrosive liquid.

**Proper Shipping Name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Stoddard solvent, Potassium hydroxide)

**UN number** : UN2924

**Packing group** : III

**ICAO/IATA Classification** : IATA Class 3: Flammable liquid.  
IATA Class 8: Corrosive liquid.

**Proper Shipping Name** : FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Stoddard solvent, Potassium hydroxide)

**UN number** : UN2924

**Packing group** : III

## 15. Regulatory Information

**HCS Classification** : Combustible liquid  
Corrosive material

**U.S. Federal Regulations** : TSCA 8(b) inventory: All the ingredients are on the TSCA list.

SARA 304 extremely hazardous substances: No products were found.  
 SARA 302 emergency planning and notification: No products were found.  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Stoddard solvent: Fire hazard, Immediate (Acute) Health Hazard; Sodium silicate: Immediate (Acute) Health Hazard; Potassium hydroxide: Immediate (Acute) Health Hazard

**SARA 313** :

**Reporting Requirements** No products were found.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112(r) accidental release prevention: No products were found.

**International Regulations**

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
 Class E: Corrosive liquid.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

CEPA DSL: All the ingredients are on the DSL list.

**State Regulations** : Pennsylvania RTK: Stoddard solvent; Potassium hydroxide: (environmental hazard)  
 Florida: Stoddard solvent; Potassium hydroxide  
 Massachusetts RTK: Stoddard solvent; Potassium hydroxide  
 New Jersey: Stoddard solvent; Potassium hydroxide

**WARNING:** This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Benzene; Toluene; 1,4-Dioxane; Ethylene oxide

**16. Other Information**

|   |                            |   |          |  |
|---|----------------------------|---|----------|--|
| <b>Hazardous Material Information System (U.S.A.)</b> | <b>Health</b>              | * | <b>3</b> | <b>National Fire Protection Association (U.S.A.)</b> |
|   | <b>Fire Hazard</b>         |   | <b>2</b> |  |
|   | <b>Reactivity</b>          |   | <b>0</b> |  |
|   | <b>Personal Protection</b> |   | <b>X</b> |  |



**References** : Not available.

**Other Special Considerations** : Not available.

Validated by Kodak Polychrome Graphics on 2004-06-01. Verified by Kodak Polychrome Graphics.  
 Printed 2004-06-01.

**In Case of Emergency CALL 1-800-451-8346**

**Notice to Reader**

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