

### 1 Identification of substance

#### Product details

**Trade name:** Hydrotint® Red Liquid Iron Oxide A1070

**MSDS ID Number:** D-06042

**Manufacturer/Supplier:**

W.R. Grace & Co. -Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140 USA

Grace Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 Canada

**www.graceconstruction.com**

**Information department:**

Environmental Health & Safety  
USA: 1-617-876-1400 (24 hours)  
1-800-354-5414 (8AM - 5PM)  
CAN: 1-905-683-8561 (24 hours)

**Transport Emergency:** Chemtrec 1-800-424-9300 (24 hours)

### 2 Composition/Data on components

#### Chemical characterization

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Hazardous components:**

Hazardous components:			
107-21-1	Ethylene glycol	Xn; R 22	10-20%
1309-37-1	Iron oxide		50-100%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

**Hazard description:**

Xn Harmful

**Information pertaining to particular dangers for man and environment:**

Review information in this MSDS and product label prior to use.

Harmful if swallowed.

Irritating to eyes and respiratory system.

**Additional target organ effects:**

May cause liver damage

May cause kidney damage

May cause teratogenic effects

May cause reproductive effects.

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**Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

**4 First aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

**After skin contact:**

Immediately wash contaminated skin with soap or mild detergent and water.

If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

**After swallowing:** Do not induce vomiting; immediately call for medical help.

**5 Fire fighting measures****Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures**

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** No special measures required.

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**Measures for cleaning/collecting:**

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the MSDS.

Contain spill with dike made of cement, sand, soil or other absorbent material. Sprinkle spill with dry absorbent powder, such as cement, dried clay or other absorbent material and mix with broom until mixture is dry. Vacuum or scoop material into an appropriately marked container for disposal. Keep out of sewers, storm drains, surface waters and soil.

**7 Handling and storage****Handling:****Information for safe handling:**

Open and handle receptacle with care.

Avoid prolonged or repeated breathing of vapors. Avoid getting in eyes or on skin. Wash thoroughly after handling.

Avoid contact with moisture. Re-seal container immediately after use.

**Information about protection against explosions and fires:**

Shipping pallets are wrapped in polyethylene plastic. Removal may cause an electrostatic spark; therefore, removal of the wrap should not be in the presence of flammable vapors.

**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:**

Store dry at ambient temperature away from food, beverages, excessive heat or flame sources (furnace, kilns, boilers etc.). Avoid freezing. Rotate stock to use older product first. Inspect containers for leaks or cracks.

**8 Exposure controls and personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:****107-21-1 Ethylene glycol**

TLV	Short-term value: C 100 mg/m <sup>3</sup> (H)
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**Additional information:** The lists that were valid during the creation were used as basis.**Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

**Breathing equipment:**

Respiratory protection is not normally required. However, a chemical cartridge respirator with organic vapor cartridge and a prefilter for dusts/mists is required at or above the applicable exposure limits (consult exposure guidelines). If no limits exist, use an approved respirator whenever a vapor or mist is generated or if respiratory irritation occurs. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

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**Protection of hands:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Material of gloves**

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use.

**Eye protection:**

Tightly sealed goggles

**Face protection**

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

**Body protection:** Protective work clothing**9 Physical and chemical properties****General Information**

<b>Form:</b>	Liquid
<b>Color:</b>	Red
<b>Odor:</b>	Sweet, glycol-like

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100°C (212°F)

<b>Flash point:</b>	> 110°C (> 230°F)
<b>Method:</b>	(estimated) Aqueous system.

<b>Ignition temperature:</b>	410.0°C (770°F)
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<b>Auto igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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**Explosion limits:**

<b>Lower:</b>	3.2 Vol %
<b>Upper:</b>	53.0 Vol %

<b>Vapor pressure at 20°C (68°F):</b>	0.1 hPa (0 mm Hg)
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<b>Density:</b>	Not determined.
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<b>pH-value at 20°C (68°F):</b>	9.5
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**10 Stability and reactivity****Thermal decomposition:** No decomposition if used according to specifications.

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**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Acute toxicity:****LD/LC50 values relevant for classification:****1309-37-1 Iron oxide**

Oral LD50 &gt;5000 mg/kg (rat)

**107-21-1 Ethylene glycol**

Oral LD50 5840 mg/kg (rat)

Dermal LD50 9530 mg/kg (rabbit)

**Primary irritant effect:****on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Additional toxicological information:**

Harmful

Irritant

**Potential Health Effects:**

Glycols contained in this product have been associated with the following effects: birth defects and liver and kidney damage. Excessive exposure can cause headache, weakness, confusion, dizziness, staggering, slurred speech, loss of coordination, faintness, vomiting, increased heart rate, decreased blood pressure, difficulty breathing and seeing, pulmonary edema, unconsciousness, convulsions, collapse and coma.

Eyes: May cause irritation, redness, blurred vision and tearing. Effects are temporary and reversible.

Skin: Product is not absorbed into skin and is not likely to irritate or cause an allergic reaction. Repeated contact may result in the development of an allergic skin reaction in a small number of individuals. If allowed to remain on the skin without being rinsed off with water, a thin film of dried pigment may form. Injury or irritation of the skin may occur by direct mechanical action or by rigorous skin cleaning necessary for removal of dried liquid.

Ingestion: May cause nausea, vomiting, diarrhea and gastrointestinal irritation.

Inhalation: Vapor or mist can cause headache, nausea, and irritation of nose, throat and lungs. Effects are temporary and reversible.

**13 Disposal considerations****Product:** Comply with Federal, State and local regulations**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****DOT regulations:****Hazard class:** -**Land Transport ADR/RID (cross-border):****ADR/RID class:** -**Maritime Transport IMDG:****IMDG Class:** -**Marine pollutant:** No**Air Transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -**15 Regulations****SARA (Superfund Amendments and Reauthorization Act)****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (specific toxic chemical listings):**

107-21-1 | Ethylene glycol

**TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**WHMIS Classification(s):**

D2B - Toxic material causing other toxic effects

**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**Proposition 65**

This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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**IARC (International Agency for Research on Cancer)**

1309-37-1	Iron oxide	3
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**NTP (National Toxicology Program)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

1309-37-1	Iron oxide	A4
107-21-1	Ethylene glycol	A4

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Product related hazard informations:****Hazard symbols:**

Xn Harmful

**Risk phrases:**

Harmful if swallowed.

Irritating to eyes and respiratory system.

**Safety phrases:**

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

**Non-hazardous Ingredients**

1309-37-1	Iron oxide	50-100%
7732-18-5	Water	20-30%

**16 Other information**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

Hydrotint® is a registered trademark of Davis Colors.