

## SAFETY DATA SHEET



Date issued : 02/11/2016

SDS number : 450

Date revised : 01/17/2023

Revision number : 1

## Twin Grind 3603

## 1. Identification

**Product identifier:** Twin Grind 3603  
**Relevant identified uses:** Industrial lubricant

**Manufacturer / Supplier**

Twin Specialties Corp.  
 www.twinoils.com  
 1730 Walton Rd. Ste. 207  
 Blue Bell, PA 19422  
**Customer Service:** (610) 834-7900  
**E-Mail:** [sales@gemini-twin.com](mailto:sales@gemini-twin.com)

**Emergency telephone number (24 hour)**

For Hazardous Materials [or Dangerous Goods] Incident  
 Spill, Leak, Fire, Exposure, or Accident  
 Call CHEMTREC Day or Night  
 Within USA and Canada: 1-800-424-9300  
 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)  
 CHEMTREC Customer Number (CCN) 11450

## 2. Hazard identification

**Classification of the substance or mixture****Health hazards:**

Skin Irritation, Category 2  
 Eye Irritation, Category 2

**Label elements**

Exclamation  
 mark

**Signal word:** WARNING**Hazard statement(s)**

H315: Causes skin irritation.  
 H319: Causes serious eye irritation.

**Precautionary statement(s)****Prevention:**

P264: Wash thoroughly after handling.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P302+P352: IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P362: Take off contaminated clothing.

**Potential health effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Ingestion of this product is unlikely. However, if ingested the product may cause gastrointestinal irritation and disturbances.

**Inhalation:** Inhalation of vapors or mists may be irritating to respiratory system.

### 3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Potassium Hydroxide	1 - 5	1310-58-3
1-Propanol, 2-amino-2-methyl-	5 - 10	124-68-5
Boric acid (H3BO3)	1 - 5	10043-35-3
Propane-1,2,3-triol	1 - 5	56-81-5
Amine Carboxylate	5 - 10	

**Comments:**

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

### 4. First-aid measures

**Eye:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**Skin:** Wash with soap and water. Get medical attention if irritation develops or persists.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**Inhalation:** If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Use alcohol foam, carbon dioxide, or water fog when fighting fires involving this material.

**Hazardous combustion products:** Oxides of carbon and nitrogen may be produced.

**Other considerations:** Product contains water and will only burn after water is boiled off.

**Fire fighting equipment:** Wear self-contained breathing apparatus and full protective clothing.

### 6. Accidental release measures

**General procedures:** Absorb spill with inert material. Collect material into appropriate container for disposal. Dispose of in accordance with Federal, State and local regulations.

**Special protective equipment:** Wear suitable protective clothing, gloves and eye/face protection. Prevent further leakage or spillage if safe to do so.

### 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes and skin. Wash thoroughly after handling.

**Conditions for safe storage:** Keep container tightly closed and in a cool, well-ventilated place.

### 8. Exposure controls/personal protection

**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m <sup>3</sup>
Potassium Hydroxide	OSHA PEL	TWA		2
	ACGIH TLV	TWA		2
Propane-1,2,3-triol	OSHA PEL	TWA		10
	ACGIH TLV	TWA		10

**Appropriate engineering controls:** Provide local and general exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye / face protection:** Safety glasses

**Skin protection - hand protection:** Chemical resistant protective gloves

**Respiratory protection:** If ventilation is not sufficient to prevent buildup of mists and vapors, wear appropriate NIOSH/MSHA respirator.

**Occupational hygiene practices:** Wash hands before breaks and at the end of work.

**9. Physical and chemical properties**

**Appearance:** Liquid

**Color:** Amber

**Odor:** Aminic

**Odor threshold:** Not determined.

**pH:** 9.7

**Freezing point:** ~ (32°F)

**Initial boiling point and boiling range:** > (212°F)

**Flash point:** > (212°F) Cleveland Open Cup

**Notes:** Product contains water.

**Evaporation rate (n-butyl acetate = 1):** Not determined.

**Explosion limit / flammability limit notes:** N/D

**Vapor pressure:** < 12 mm Hg

**Relative vapor density:** ~ 0.5 Air = 1

**Relative density:** 1.055

**Solubility:** Soluble

**Decomposition temperature:** Not determined.

**Viscosity:** Not determined.

**10. Stability and reactivity**

**Reactivity:** Nonreactive.

**Chemical stability:** Stable

**Conditions to avoid:** Product contains amines. Do not mix with nitrites or other nitrosating agents because carcinogenic nitrosamines may be formed.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Hazardous decomposition products:** No dangerous decomposition products known.

**Incompatible materials:** Strong oxidizing agents.

**11. Toxicological information**

**Acute toxicity**

Chemical name	LD <sub>50</sub> (oral) mg/kg(rat)	LD <sub>50</sub> (dermal) mg/kg(rabbit)
1-Propanol, 2-amino-2-methyl-	2900 mg/kg	> 2000 mg/kg
Boric acid (H3BO3)	2660 mg/kg	
Propane-1,2,3-triol	12600 mg/kg	

**Carcinogenicity****IARC:** No components listed.**NTP:** No components listed.**OSHA:** No components listed.**Reproductive toxicity:** In animal testing, the risk of impaired fertility was shown only after administration of very high doses of boric acid.**General comments:** Routes of exposure: skin, inhalation and eyes.**12. Ecological information****Other adverse effects:** No data available.**13. Disposal considerations****Disposal methods:** Dispose of in accordance with local, state and federal regulations.**14. Transport information****USA Department of Transport Regulations (DOT)****UN proper shipping name:** Not regulated**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories****313 reportable ingredients:** None above reporting de minimis.**EPCRA Section 302 Extremely Hazardous Substances****EPCRA Status:** None above reporting de minimis.**CERCLA Hazardous Substances and Reportable Quantities (RQ)**

Chemical name	% w/w	CERCLA rq
Potassium Hydroxide	1 - 5	1,000

**TSCA (The Toxic Substances Control Act)****TSCA regulatory:** All of the components in this product are either listed on or exempt from the Toxic Substance Control Act (TSCA) chemical substance inventory.**16. Other information****Date revised:** 01/17/2023**Revision summary:** This SDS replaces the 02/11/2016 SDS. Revised: **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).**HMIS rating**

Health	<input type="checkbox"/>	<b>1</b>
Flammability	<input type="checkbox"/>	<b>0</b>
Physical hazard	<input type="checkbox"/>	<b>0</b>
Personal protection	<input type="checkbox"/>	<b>B</b>

**Manufacturer disclaimer:**

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