



## 1. Product and company identification

**Product name** Brayco Micronic 783

**MSDS #** 451071

**Historic MSDS #:** 27018

**Code** 451071-US03

**Product use** Hydraulic fluid  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Manufacturer** Castrol Industrial North America, Inc.  
150 W. Warrenville Road  
Naperville, IL 60563

**Supplier** Castrol Industrial North America, Inc.  
150 W. Warrenville Road  
Naperville, IL 60563  
Product Information: +1-877-641-1600

**EMERGENCY SPILL INFORMATION:** 1 (800) 424-9300 CHEMTREC (USA)

## 2. Hazards identification

**Physical state** Liquid.

**Color** Red.

**Emergency overview** CAUTION !  
COMBUSTIBLE LIQUID AND VAPOR.  
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
Combustible liquid. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Keep away from heat, sparks and flame. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

**Routes of entry** Dermal contact. Eye contact. Inhalation.

**Potential health effects**

**Eyes** May cause eye irritation.

**Skin** May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation and diarrhea.

[See toxicological information \(Section 11\)](#)

## 3. Composition/information on ingredients

Ingredient name	CAS #	%
Base oil - highly refined	Varies	50 - 55
Distillates (Petroleum) hydrotreated light	64742-47-8	5 - 10
Base oil - highly refined	Proprietary	1 - 5

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## 4. First aid measures

<b>Eye contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>Skin contact</b>	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Get medical attention if symptoms occur.
<b>Notes to physician</b>	Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discolored and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

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## 5. Fire-fighting measures

<b>Flammability of the product</b>	Combustible liquid.
<b>Flash point</b>	Closed cup: 82°C (179.6°F) [Pensky-Martens.]
<b>Fire/explosion hazards</b>	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
<b>Extinguishing media</b>	
<b>Suitable</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Not suitable</b>	Do not use water jet.
<b>Fire-fighting procedures</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Hazardous combustion products</b>	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
<b>Protective clothing (fire)</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## 6. Accidental release measures

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Methods for cleaning up</b>	
<b>Large spill</b>	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

**Handling** Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

**Storage** Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### Ingredient name

Base oil - highly refined

#### Occupational exposure limits

##### ACGIH TLV (United States).

TWA: 5 mg/m<sup>3</sup> 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction

##### NIOSH REL (United States).

TWA: 5 mg/m<sup>3</sup> 10 hours. Issued/Revised: 6/1994 Form: Mist

STEL: 10 mg/m<sup>3</sup> 15 minutes. Issued/Revised: 6/1994 Form: Mist

##### OSHA PEL (United States).

TWA: 5 mg/m<sup>3</sup> 8 hours. Issued/Revised: 6/1993

Distillates (Petroleum) hydrotreated light

##### OSHA PEL (United States). Absorbed through skin.

STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Mist

##### ACGIH TLV (United States). Absorbed through skin.

TWA: 200 mg/m<sup>3</sup>, (as total hydrocarbon vapor) 8 hours. Issued/Revised: 1/2003

Base oil - highly refined

##### ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Mineral oil, mist

##### OSHA (United States).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Mineral oil, mist

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

**Some states may enforce more stringent exposure limits.**

#### Control Measures

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

#### Personal protection

**Eyes** Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

**Skin and body** Avoid contact with skin and clothing. Wear suitable protective clothing.

**Respiratory** Use adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

## Hands

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

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## 9. Physical and chemical properties

Physical state	Liquid.
Color	Red.
Odor	Mild.
Flash point	Closed cup: 82°C (179.6°F) [Pensky-Martens.]
Density	879 kg/m <sup>3</sup> (0.879 g/cm <sup>3</sup> ) at 15.6°C
Viscosity	Kinematic: 13 mm <sup>2</sup> /s (13 cSt) at 40°C
Solubility	insoluble in water.

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## 10. Stability and reactivity

Stability and reactivity	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

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## 11. Toxicological information

### Potential chronic health effects

Carcinogenicity	No known significant effects or critical hazards.
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## 12. Ecological information

### Ecotoxicity

No testing has been performed by the manufacturer.

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## 13. Disposal considerations

### Waste information

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
<b>DOT Classification</b>	NA1993	<input checked="" type="checkbox"/> Combustible liquid, n.o.s. (Distillates (Petroleum) hydrotreated light)	Combustible liquid.	III	<input checked="" type="checkbox"/> Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.  <b>Remarks</b> Not regulated in containers less than 119 gallons when transported by rail or road.
<b>TDG Classification</b>	Not regulated.	-	-	-	-
<b>IMDG Classification</b>	Not regulated.	-	-	-	-
<b>IATA/ICAO Classification</b>	Not regulated.	-	-	-	-

## 15. Regulatory information

### U.S. Federal Regulations

**United States inventory (TSCA 8b)**

All components are listed or exempted.

**SARA 302/304:** No products were found.

**SARA 311/312 Hazards identification:** Fire hazard, Immediate (acute) health hazard

**SARA 313**

**Form R - Reporting requirements**

This product does not contain any hazardous ingredients at or above regulated thresholds.

**Supplier notification**

This product does not contain any hazardous ingredients at or above regulated thresholds.

**CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):**

CERCLA: Hazardous substances.: methyl methacrylate: 1000 lbs. (454 kg);

### State regulations

**Massachusetts Substances**

The following components are listed: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC

**New Jersey Hazardous Substances**

The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED)

**Pennsylvania RTK Hazardous Substances**

None of the components are listed.

**California Prop. 65**

**California Prop 65:** No products were found

### Other regulations

**Canada inventory**

All components are listed or exempted.

**REACH Status**

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

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<b>Australia inventory (AICS)</b>	All components are listed or exempted.
<b>China inventory (IECSC)</b>	All components are listed or exempted.
<b>Japan inventory (ENCS)</b>	All components are listed or exempted.
<b>Korea inventory (KECI)</b>	All components are listed or exempted.
<b>Philippines inventory (PICCS)</b>	All components are listed or exempted.

## 16. Other information

**Label requirements** CAUTION !  
 COMBUSTIBLE LIQUID AND VAPOR.  
 MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**HMIS® Rating :**

<b>Health</b>	<b>1</b>	<b>National Fire Protection Association (U.S.A.)</b>
<b>Flammability</b>	<b>2</b>	
<b>Physical Hazard</b>	<b>0</b>	
<b>Personal protection</b>	<b>B</b>	



**History**

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**Date of previous issue** 09/09/2013.

**Prepared by** Product Stewardship

**Indicates information that has changed from previously issued version.**

**Notice to reader**

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