



1. Product and company identification

Product name	Brayco 922
MSDS #	452701
Historic MSDS #:	0000001445, 27034-AT, BE-08862, NL-08862, ES-452701, BR-452701
Code	452701-US10
Product use	Calibration 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: 1-800-621-2661
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)

2. Hazards identification

Physical state	Liquid.
Color	Colorless.
Emergency overview	<p>WARNING!</p> <p>COMBUSTIBLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. ASPIRATION HAZARD. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE.</p> <p>Combustible liquid and vapor. Vapor may cause flash fire. Aspiration hazard if swallowed. Can enter lungs and cause damage. 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. Do not ingest. If ingested, do not induce vomiting. 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.</p>
Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential health effects	
Eyes	Causes eye irritation.
Skin	Causes skin irritation.
Inhalation	Causes respiratory tract irritation.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (section 11)

Product name Brayco 922	Product code 452701-US10	Page: 1/6
Version 3 Date of issue 01/30/2008.	Format US	Language ENGLISH.
	Build 6.4.1 (US)	(ENGLISH)

3. Composition/information on ingredients

Ingredient name	CAS #	%
Petroleum naphtha	64742-88-7	95 - 100
1,2,4-Trimethylbenzene	95-63-6	1 - 5

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. 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.

5. Fire-fighting measures

Flammability of the product	Combustible liquid and vapor.
Flash point	Closed cup: 40°C (104°F) [Tagliabue.]
Fire/explosion hazards	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Unusual fire/explosion hazards	Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
<u>Extinguishing media</u>	
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	Do not use water jet.
Fire-fighting procedures	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.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Protective clothing (fire)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	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).
Environmental precautions	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).
<u>Methods for cleaning up</u>	

Product name Brayco 922

Product code 452701-US10

Page: 2/6

Version 3 **Date of issue** 01/30/2008.

Format US

Language ENGLISH.

Build 6.4.1 (US)

(ENGLISH)

Large spill

Stop leak if without risk. Move containers from spill area. 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). Use spark-proof tools and explosion-proof equipment. 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.

Small spill

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

1,2,4-Trimethylbenzene

Occupational exposure limits

ACGIH TLV (United States, 1/2007).

TWA: 123 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

NIOSH REL (United States, 12/2001).

TWA: 125 mg/m³ 10 hour(s).

TWA: 25 ppm 10 hour(s).

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

Do not get on skin or 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.

Product name Brayco 922

Product code 452701-US10

Page: 3/6

Version 3 **Date of issue** 01/30/2008.

Format US

Language ENGLISH.

Build 6.4.1 (US)

(ENGLISH)

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.

9. Physical and chemical properties

Physical state	Liquid.
Color	Colorless.
Odor	Mild. Hydrocarbon.
Flash point	Closed cup: 40°C (104°F) [Tagliabue.]
Specific gravity	0.771
Density	771 kg/m ³ (0.771 g/cm ³) at 15°C
Viscosity	Kinematic: <7 mm ² /s (<7 cSt) at 40°C
Vapor pressure	0.399 kPa (3 mm Hg) at 20°C
Solubility	Insoluble in water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
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.

11. Toxicological information

Other information	Contains material that may cause target organ damage, based on animal data. Target Organs: Liver. Kidneys.
Potential chronic health effects	
Carcinogenicity	No known significant effects or critical hazards.

12. Ecological information

No testing has been performed by the manufacturer.

Persistence/degradability	Inherently biodegradable
Mobility	Spillages may penetrate the soil causing ground water contamination.
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Product name Brayco 922

Product code 452701-US10

Page: 4/6

Version 3 **Date of issue** 01/30/2008.

Format US

Language ENGLISH.

Build 6.4.1 (US)

(ENGLISH)

13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN 1268	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	3	III	Remarks Not regulated in containers less than 119 gallons when transported by rail or road.
TDG Classification	UN 1268	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	3	III	-
IMDG Classification	UN 1268	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	3	III	-
IATA/ICAO Classification	UN 1268	PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)	3	III	-

15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: 1,2,4-Trimethylbenzene

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Brayco 922:
Fire hazard, Immediate (acute) health hazard

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	1,2,4-Trimethylbenzene	95-63-6	0 - 2.999
Supplier notification	1,2,4-Trimethylbenzene	95-63-6	0 - 2.999
CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):	CERCLA: Hazardous substances.: No products were found.		

State regulations

Massachusetts Substances

Massachusetts Substances: The following components are listed: PSEUDOCUMENE

New Jersey Hazardous Substances

New Jersey Hazardous Substances: The following components are listed: PSEUDOCUMENE

Product name Brayco 922

Product code 452701-US10

Page: 5/6

Version 3 **Date of issue** 01/30/2008.

Format US

Language ENGLISH.

Build 6.4.1 (US)

(ENGLISH)

California Prop. 65

California Prop 65: No products were found

Inventories

Canada inventory: All components are listed or exempted.

Europe inventory: All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): Not determined.

Japan inventory (ENCS): All components are listed or exempted.

Korea inventory (KECI): All components are listed or exempted.

Philippines inventory (PICCS): Not determined.

16. Other information

Label requirements

WARNING!

COMBUSTIBLE LIQUID AND VAPOR.
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
ASPIRATION HAZARD.
HARMFUL OR FATAL IF SWALLOWED.
CAN ENTER LUNGS AND CAUSE DAMAGE.

HMIS® Rating :

Health * 1
Flammability 2
Physical Hazard 0
Personal protection B

National Fire Protection Association (U.S.A.)



History

Date of issue 01/30/2008.

Date of previous issue 09/18/2007.

Prepared by Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Product name Brayco 922	Product code 452701-US10	Page: 6/6	
Version 3	Date of issue 01/30/2008.	Format US	Language ENGLISH.
	Build 6.4.1 (US)		(ENGLISH)