



Stoddard solvent

Safety Data Sheet

According to ABNT NBR 14725-4

Date of issue: 7 June 2015

Revision date: 22 May 2017

Supersedes: 7 June 2015

Version: 2

SECTION 1: Identification of Product and Company

1.1. Product identifier

Trade name : Stoddard solvent
Chemical name : Distillates, petroleum, cracked stripped steam-cracked petroleum distillates, C8-10 fraction
Product code : P901 / P901R

1.2. Company identification

BRASKEM S/A

Av. Presidente Costa e Silva, 1.178
Parque Capuava - Santo André, SP - Brazil
Zip-code: 09270-901

BRASKEM S/A

Rua Eteno, 1561 – Pólo Petroquímico de Camaçari
Zip-code: 42810-000 – Camaçari/BA - Brazil

Email: productsafety@braskem.com

Emergency number : +55 (71) 3413-1111 or 0800-71-5454

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids, Category 3

Aspiration hazard, Category 1

2.2. Label elements

GHS-BR labelling

Hazard pictograms (GHS-BR)



GHS02

GHS08

Signal word (GHS-BR) : Danger

Hazard statements (GHS-BR) : H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways

Precautionary statements (GHS-BR) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking heat, hot surfaces, open flames, sparks
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear eye protection, protective clothing, protective gloves
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P331 - Do NOT induce vomiting
P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Trade name : Stoddard solvent
Chemical name : Distillates, petroleum, cracked stripped steam-cracked petroleum distillates, C8-10 fraction
CAS No : 68477-39-4
EC No : 270-728-3
EC Index No : 649-409-00-1

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Substance type : UVCB

Name	Product identifier	%
benzene	(CAS No) 71-43-2	<= 0.01
Toluene	(CAS No) 108-88-3	<= 0.01

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Aspiration of this material may cause chemical pneumonia. May be irritating to the mucous membranes and to the respiratory system.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Abdominal pain, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physician :	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Reactivity	: Stable under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Spilled material may present a slipping hazard.
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6.1.1. For non-emergency personnel

Protective equipment	: Complete protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leaks if it can be done without personal risk. Control the vapours with a fine water spray.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use only non-sparking tools.
- Hygiene measures : Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use only explosion-proof equipment.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container tightly closed.
- Incompatible materials : Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
Brazil	Tolerance Limit NR-15 (mg/m ³)	290 mg/m ³
Brazil	Tolerance Limit NR-15 (ppm)	78 ppm
USA	Local name	Toluene
USA	ACGIH TWA (ppm)	20 ppm
benzene (71-43-2)		
USA	Local name	Benzene
USA	ACGIH TWA (ppm)	0.5 ppm
USA	ACGIH STEL (ppm)	2.5 ppm

8.2. Exposure controls

- Appropriate engineering controls : Avoid the formation of mists in the atmosphere. Either local exhaust or general room ventilation is usually required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use only non-sparking tools.

8.3. Personal protective equipment

- Hand protection : Protective gloves made of rubber or PVC.
- Eye protection : Chemical goggles or safety glasses.
- Respiratory protection : Wear respiratory protection. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : colourless to slightly yellow
- Odour : characteristic aromatic odour
- Odour threshold : Not available
- pH : Not applicable
- Melting point : -70 °C
- Freezing point : Not available
- Boiling point : 135 - 235 °C
- Flash point : > - 28 °C
- Relative evaporation rate (butylacetate=1) : 6 - 9

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Flammability (solid, gas)	: Not available
Explosive limits	: 0.6 - 6.7 vol %
Vapour pressure	: 10.5 - 35.8 mm Hg
Relative vapour density at 20 °C	: 4.5 - 5
Relative density	: Not available
Density	: 0.75 - 0.82
Solubility	: Water: Insoluble Organic solvent: Soluble
Log Pow	: 3.5 - 6.5
Log Kow	: Not available
Auto-ignition temperature	: 232 - 287 °C
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available

9.2. Other information

Not available

SECTION 10: Stability and reactivity

Chemical stability	: Flammable liquid and vapour, May form flammable/explosive vapour-air mixture
Conditions to avoid	: Open flame, Overheating, Direct sunlight, Heat, Sparks
Hazardous decomposition products	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases
Incompatible materials	: Strong oxidizers
Possibility of hazardous reactions	: Hazardous polymerization will not occur
Reactivity	: Stable under normal conditions of use

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Toluene (108-88-3)	
LD50 oral rat	2600 mg/kg
LD50 dermal rabbit	12000 mg/kg
LC50 inhalation rat (mg/l)	12.5 mg/l/4h
benzene (71-43-2)	
LD50 oral rat	810 mg/kg
LD50 dermal rabbit	> 8200 mg/kg
LC50 inhalation rat (mg/l)	44.66 mg/l/4h

Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Not classified pH: Not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: May result in aspiration into the lungs, causing chemical pneumonia.
Symptoms/injuries after inhalation	: Aspiration of this material may cause chemical pneumonia. May be irritating to the mucous membranes and to the respiratory system.
Symptoms/injuries after skin contact	: Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Abdominal pain, nausea.

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SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Other information	: Avoid release to the environment.

Toluene (108-88-3)	
LC50 fish 1	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

benzene (71-43-2)	
LC50 fish 1	10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	10 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

benzene (71-43-2)	
Persistence and degradability	Readily biodegradable. not persistent.

12.3. Bioaccumulative potential

Stoddard solvent (68477-39-4)	
Log Pow	3.5 - 6.5
Bioaccumulative potential	Not established.

Toluene (108-88-3)	
Log Pow	2.7

benzene (71-43-2)	
BCF fish 1	3.5 - 4.4
Bioconcentration factor (BCF REACH)	> 2000
Log Pow	1.83
Bioaccumulative potential	not bioaccumulable.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the ozone layer	: No additional information available.
GWPmix comment	: No known effects from this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

Classification for LAND transport: ANTT

UN Number	: UN1268
Proper Shipping Name	: Petroleum distillates, n.o.s. (Toluene, Benzene)
Class	: 3
Risk Number	: 30
Packing group	: III
Environmental Hazards	: Not considered environmentally hazardous based on available data

Classification for SEA transport: IMO-IMDG

UN Number	: UN1268
Proper Shipping Name	: PETROLEUM DISTILLATES, N.O.S. (Toluene, Benzene)
Class	: 3
Packing group	: III
Marine Pollutant	: Not considered marine pollutant based on available data

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name : White spirit, low (15-20%) aromatic

Classification for AIR transport: ICAO-IATA

UN Number : UN1268
Proper Shipping Name : Petroleum distillates, n.o.s. (Toluene, Benzene)
Class : 3
Packing group : III

This information does not intend to convey all specific regulatory or operational requirements/information relating to the product therefore it cannot be considered exhaustive. Consult ANTT, IMO and ICAO regulations before transporting the product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: Regulatory information

No additional information available

SECTION 16: Other information

Other information : None.
Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Braskem - SDS_Brazil (modified 150607) – English Version

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.