

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

Revision Date: 5-Jan-2022

Issuing Date: 28-Nov-2007

Revision Number: 10.2

Safety data sheet number: SA6248401

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name** SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)  
**Product Form** Mixture  
**Safety data sheet number** SA6248401

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses** Water based solvent  
**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Brother Industries, Ltd.  
15-1 Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan  
Telephone (for information): +81-52-824-2735

#### Importer

(USA)  
Brother International Corporation  
200 Crossing Boulevard, Bridgewater, NJ 08807, USA  
Telephone (for information): +1-877-276-8437  
(Europe)  
Brother Internationale Industriemaschinen GmbH  
Dusseldorfer Str. 7-9, D-46446, Emmerich, am Rhein, Germany  
Telephone (for information): +49-2-822-6090  
(UK)  
MHM Direct  
Unit 9, The Stairway Langham Park Industrial Estate, Lows Ln, Stanton by Dale, Ilkeston DE7 4RJ, U.K.  
Telephone (for information): +44-115-944-2285  
(Australia)  
Brother International (Aust.) Pty. Ltd. ACN 001 393 835  
Unit 2/51 Eastern Creek Drive Eastern Creek, NSW 2766, Australia  
Telephone (for information): +61-2-9887-4344  
(New Zealand)  
BROTHER INTERNATIONAL (NZ) LTD.  
27 Matarawa Place, Tauriko Business Estate, Tauriko, Tauranga, New Zealand  
Telephone (for information): +64-7-543-5600  
(Singapore)  
BROTHER INTERNATIONAL SINGAPORE PTE. LTD.  
10 Eunos Road 8, #14-01/02 Singapore Post Centre, Singapore 408600, Singapore  
Telephone (for information): +65-6538-0311  
(Asia)  
BROTHER MACHINERY ASIA LTD.  
Unit 1207-11, 12/F, 9 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong  
Telephone (for information): +852-2777-0010  
(China)  
BROTHER MACHINERY SHANGHAI LTD.  
Room 01, 5/F., No.799, West Tianshan Rd., ChangNing District, Shanghai 200335,

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

P.R.China  
Telephone (for information): +86-21-2225-6666

**For further information, please contact**

**E-mail address** sds.info@brother.co.jp

**1.4. Emergency telephone number**

**Emergency Telephone** CHEMTREC +1-703-527-3887 (International)  
CHEMTREC +1-800-424-9300 (North America)  
CHEMTREC +61-290372994 (Australia)  
For France only:  
Antipoison Center telephone number: ORFILA +33-1-45-425-959

**Section 2: Hazard(s) identification**

**2.1. Classification of the substance or mixture**

***Regulation (EC) No 1272/2008***

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

**2.2. Label elements**

***Regulation (EC) No 1272/2008***

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

EUH208 - Contains 1,2-Benzisothiazolin-3-one May produce an allergic reaction.

EUH210 - Safety data sheet available on request

**2.3. Other hazards**

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Section 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No	EC No	EC Index No	Weight-%	Specific concentration limit (SCL)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Diethylene glycol	111-46-6	203-872-2	603-140-00-6	55-65	-	Acute Tox. 4	01-2119457857-

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

Water	7732-18-5	231-791-2	-	30-45	-	(H302)	21-XXXX
1,2-Benzisothiazolin-3-one	2634-33-5	220-120-9	613-088-00-6	<0.05	Skin Sens. 1 :: C>=0.05%	Not classified Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Not applicable

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Full text of H- and EUH-phrases: see section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Get immediate medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Eye contact</b>	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
<b>Skin contact:</b>	Take off contaminated clothing. Wash off immediately with soap and plenty of water.
<b>Ingestion</b>	Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

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

<b>Symptoms</b>	Skin contact : Repeated and/or prolonged skin contact may cause irritation Eye contact : May cause eye irritation Inhalation : May be harmful if inhaled Ingestion : Ingestion above therapeutic dose may cause nausea, vomiting, dizziness, and headache May cause damage to organs : liver kidneys
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## Section 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam
<b>Unsuitable extinguishing media</b>	None

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapors  
Carbon monoxide , Carbon dioxide (CO<sub>2</sub>) , Nitrogen oxides (NOx)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Use personal protective equipment as required

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Avoid release to the environment. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Wipe up with absorbent towel Wash with water to remove remaining traces of ink.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling** Wash thoroughly after handling. Ensure adequate ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

electricity).

**7.3. Specific end use(s)**

**Specific use(s)** Water based solvent

**Section 8: Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Diethylene glycol 111-46-6	-	TWA: 23 ppm TWA: 101 mg/m <sup>3</sup> STEL: 69 ppm STEL: 303 mg/m <sup>3</sup>	-	-	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup>
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Diethylene glycol 111-46-6	-	-	-	-	TWA: 2.5 ppm TWA: 11 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Diethylene glycol 111-46-6	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> STEL 40 ppm STEL 176 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 44 mg/m <sup>3</sup> STEL: 40 ppm STEL: 176 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 23 ppm TWA: 100 mg/m <sup>3</sup> STEL: 69 ppm STEL: 300 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be sufficient under normal use.

**Personal protective equipment** Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:

**Eye/face protection** Safety goggles.

**Hand protection** Protective gloves.

**Skin and body protection** Long sleeved clothing and long pants

**Respiratory protection** Use appropriate respiratory protection.

**Environmental exposure controls** Avoid release to the environment.

**Section 9: Physical and chemical properties**

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
**Revision Number:** 10.2  
**Safety data sheet number:** SA6248401

**9.1. Information on basic physical and chemical properties**

**Appearance**

<b>Physical state</b>	Liquid
<b>Color</b>	Pale yellow
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	8 - 9	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	100 °C	None known
<b>Flash point</b>	> 93.3 °C	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	Not applicable	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Relative density</b>	0.9 - 1.0	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	3.5 - 4.5 mPa s	None known
<b>Explosive properties</b>	Not explosive	
<b>Oxidizing properties</b>	No information available	

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes**

No information available

**9.2.2. Other safety characteristics**

No information available

**Section 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

Keep away from heat. Avoid friction, sparks, or other means of ignition.

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Product Information**

<b>Inhalation</b>	No information available
<b>Eye contact</b>	No information available
<b>Skin contact:</b>	No information available
<b>Ingestion</b>	Acute LD <sub>50</sub> > 2500 mg/kg (OECD 423 method)

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (dermal)</b>	19,816.70 mg/kg
<b>Skin corrosion/irritation</b>	Mild Irritant (OECD 404 method)
<b>Serious eye damage/eye irritation</b>	Mild irritant to the eye. (OECD 405 method)
<b>Respiratory or skin sensitization</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA

**11.2. Information on other hazards**

No information available

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

Contains 0 % of components with unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene glycol	-	LC50: =75200mg/L (96h, Pimephales promelas)	EC50 = 29228 mg/L 15 min	EC50: =84000mg/L (48h, Daphnia magna)

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

Revision Date: 5-Jan-2022

Issuing Date: 28-Nov-2007

Revision Number: 10.2

Safety data sheet number: SA6248401

**12.2. Persistence and degradability**

Water: Half-life <1 days  
Slow Photolysis: Half-life 1-10 days / Air  
Partition Coefficient (n-octanol/water) <3.0  
Product has a low potential to bioconcentrate.

**12.3. Bioaccumulative potential**

There is no data for this product.

**Component Information**

Chemical name	Partition coefficient
Diethylene glycol	-1.98
1,2-Benzisothiazolin-3-one	1.3

**12.4. Mobility in soil**

The substance has low mobility in soil.

**12.5. Results of PBT and vPvB assessment**

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose in accordance with federal, state and local regulations.

**Section 14: Transport information**

**IMDG**

14.1 UN/ID no Not regulated  
14.2 Proper shipping name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing group Not regulated  
14.5 Marine pollutant Not applicable  
14.6 Special Provisions None  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

**RID**

14.1 UN/ID no Not regulated

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022  
**Issuing Date:** 28-Nov-2007  
Revision Number: 10.2  
Safety data sheet number: SA6248401

**14.2 Proper shipping name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

**ADR**

**14.1 UN/ID no** Not regulated  
**14.2 Proper shipping name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

**IATA**

**14.1 UN/ID no** Not regulated  
**14.2 Proper shipping name** Not regulated  
**14.3 Hazard Class** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Not applicable  
**14.6 Special Provisions** None

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU-Regulations**

- \* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XVII.
- \* Contains no substance listed in REACH Regulation (EC) No.1907/2006 Candidate List for Authorization.
- \* Contains no substances listed in REACH Regulation (EC) No.1907/2006 ANNEX XIV.

**National Regulations**

No information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**Section 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H400 - Very toxic to aquatic life

**Legend**

SVHC: Substances of Very High Concern for Authorization:

Product Name: SB5679 (WASH LIQUID L ASSY), SB5677 (FULL MAINTENANCE KIT), SB5687 (FULL MAINTENANCE KIT 541/782)

**Revision Date:** 5-Jan-2022

**Issuing Date:** 28-Nov-2007

Revision Number: 10.2

Safety data sheet number: SA6248401

TWA  
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TWA (time-weighted average)  
Trade secret

STEL

STEL (Short Term Exposure Limit)

**Key literature references and sources for data**

No information available

**Revision Date** 5-Jan-2022

**Issuing Date** 28-Nov-2007

**Revision Note**

SDS sections updated; 1

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our best knowledge as of the date of preparation (revision).