

Product name: SZ0234-001 (WASH LIQUID),
SA5718-601 (CLEANING CARTRIDGE ASSY),
SA5719-601 (SERVICE KIT),
SA6248-401 (WASH LIQUID ASSY),
SB5679-301 (WASH LIQUID L ASSY)
SB5677-301 (FULL MAINTENANCE KIT)
SB5687-101 (FULL MAINTENANCE KIT 541/782)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name SZ0234-001, SA5718-601, SA5719-601, SA6248-401, SB5679-301, SB5677-301, SB5687-101

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

Relevant Identified Use(s) Water based solvent.

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
Importer (Europe)	Brother Internationale Industriemaschinen GmbH Dusseldorfer Str. 7-9, D-46446, Emmerich, am Rhein, Germany Telephone (for information): +49-2-822-6090
Importer (Australia)	Brother International (Aust.) Pty. Ltd. ACN 001 393 835 Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia Telephone (for information): +61-2-9887-4344
Importer (New Zealand)	BROTHER INTERNATIONAL (NZ) LTD. 27 Matarawa Place, Tauriko Business Estate, Tauriko, Tauranga, New Zealand Telephone (for information): +64-7-543-5600
Importer (Singapore)	BROTHER INTERNATIONAL SINGAPORE PTE. LTD. 10 Eunos Road 8, #14-01/02 Singapore Post Centre, Singapore 408600 Telephone (for information): +65-6538-0311
Importer (Asia)	BROTHER MACHINERY ASIA LTD. 12/F, PeakCastle, 476 Castle Peak Road, Kowloon, Hong Kong Telephone (for information): +852-2777-0010
Importer (China)	BROTHER MACHINERY SHANGHAI LTD. Room B, 3/F., No.567, West Tianshan Rd., ChangNing District, Shanghai 200335, P.R.China Telephone (for information): +86-21-2225-6666
E-mail Address	sds.info@brother.co.jp

1.4 Emergency telephone number

Emergency Telephone (24 hours) CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)

For France only:
Antipoison Center telephone number: ORFILA +33-1-45-425-959

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Full text of H-phrases: see section 16

Classification according to Directive 1999/45/EC

Xn; R22

Australia Classification

Classified as hazardous according to the criteria of NOHSC

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms



Signal Word

Warning

Hazard Statements

H302 - Harmful if swallowed

Precautionary statements

P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/ container to an approved waste disposal plant.

EUH-statements

EUH208 - Contains 1,2-benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction

2.3 Other hazards

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

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture: Water based solvent (Mixture).

Chemical Name	CAS-No	EC-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)
Diethylene glycol	111-46-6	203-872-2	58-62	Xn; R22	Acute Tox. 4 (H302)
Surface active agent	*	*	5	Not classified	Not classified
a-Alkenes, polymer with maleic anhydride	*	*	2.5	Not classified	Not classified
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Xn; R22 Xi; R41 Xi; R38 R43 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Water	7732-18-5	231-791-2	30.5-34.5	Not classified	Not classified

For the full text of R-phrases and H-Statements see Section 16

* Registered

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	If symptoms persist, obtain medical attention.
Inhalation	Obtain immediate medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
Skin contact	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
Ingestion	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

Skin contact: Repeated and/or prolonged skin contact may cause irritation. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.

Eye contact: May cause eye irritation. Tears. Reddening.

Inhalation: May be harmful if inhaled.

Ingestion: Will cause irritation of the gastrointestinal tract. Nausea, headache, vomiting. Effects may be delayed.

Chronic: May cause anemia with leukocytosis (transient increase in the white blood cell count). May cause damage to organs: Liver. Kidneys.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Seek medical treatment when anyone has symptoms apparently due to swallowing, inhalation or contact with skin or eyes.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, carbon dioxide, water spray, alcohol foam.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

5.3 Advice for firefighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures** Wear suitable protective clothing. Gloves and eye/face protection.
- 6.2 Environmental precautions** Avoid release to the environment. Do not allow to enter drains, sewers or water courses.
- 6.3 Methods and materials for containment and cleaning up** Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep up spilled substance and remove to safe place. Clean up spill immediately. Eliminate sources of ignition. Use only non-sparking tools. Ensure adequate ventilation. A vapor suppressing foam may be used to reduce vapors.
- 6.4 Reference to other sections** For personal protection: See section 8.
For disposal considerations: See section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling** Wash thoroughly after handling. Use only in well-ventilated areas. Ensure adequate earthing. Use non-sparking hand tools and explosion proof electrical equipment. Decontaminate empty containers before recycling. Keep container tightly closed. Keep away from heat. Avoid friction, sparks, or other means of ignition.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep away from heat. Avoid friction, sparks, or other means of ignition. Keep in a cool, well ventilated place. Store separately from incompatible materials. Keep container tightly closed.
- 7.3 Specific end use(s)** Water based solvent.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical Name	Diethylene glycol 111-46-6
ACGIH TLV	-
OSHA PEL	-
European Union	-
The United Kingdom	STEL: 69 ppm STEL: 303 mg/m ³ TWA: 23 ppm TWA: 101 mg/m ³
Germany	TWA: 10 ppm TWA: 44 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m ³
Denmark	TWA: 2.5 ppm TWA: 11 mg/m ³
Austria	STEL 40 ppm STEL 176 mg/m ³ TWA: 10 ppm TWA: 44 mg/m ³

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Switzerland	STEL: 40 ppm STEL: 176 mg/m ³ TWA: 10 ppm TWA: 44 mg/m ³
Poland	TWA: 10 mg/m ³
Ireland	TWA: 23 ppm TWA: 100 mg/m ³

8.2 Exposure controls

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

Eye Protection	Safety goggles.
Hand Protection	Protective gloves.
Skin and body protection	Long sleeved clothing and long pants.
Respiratory protection	Wear suitable respiratory protective equipment.

Environmental Exposure Controls Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Pale yellow
Odor	Slight
Odor Threshold	No information available
pH	8 - 9
Melting point/freezing point	No information available
Initial boiling point and boiling range	100 °C
Flash Point	Does not flash at 93.3°C or lower (closed cup)
Evaporation rate	No information available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	0.9 - 1.0 (H ₂ O)
Solubility(ies)	Miscible (water)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	3.5 – 4.5 mPa·s
Explosive properties	Not explosive
Oxidizing properties	No information available

9.2 Other information

No information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	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 and Nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation	No information available.
Eye contact	No information available.
Skin contact	No information available.
Ingestion	Acute LD ₅₀ > 2500 mg/kg (OECD No. 423)

Skin corrosion/irritation Mild Irritant (OECD No. 405)

Serious eye damage/irritation Mild Irritant (OECD No. 404)

Respiratory or skin sensitisation No information available.

Mutagenicity No information available.

Carcinogenicity **Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.**

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SECTION 12: Ecological information

12.1 Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Diethylene glycol 111-46-6		LC ₅₀ : 75200 mg/L 96 h flow-through (Pimephales promelas)	EC ₅₀ : 84000 mg/L 48 h (Daphnia magna)

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

Chemical Name	log Pow
Diethylene glycol	-1.98

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 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with Federal, State, and local regulations.

SECTION 14: Transport information

Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods"

14.1 UN Number None

14.2 UN proper shipping name None

14.3 Transport hazard class(es) None

14.4 Packing Group None

14.5 Environmental hazards None

14.6 Special precautions for user None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not applicable

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SECTION 15: Regulatory information

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

EU: Classified as hazardous for supply/use. (1999/45/EC)
USA: All chemical substances contained in this product are and had been listed on the TSCA Chemical Substances Inventory, and none is subject to any of the following TSCA requirements: section 4 test rules; proposed or final section 5(a)(2) significant new use rules; section 5(e) consent orders; section 8(a) preliminary assessment information rules; and section 8(d) health and safety data reporting rules.
Canada: WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment No.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed
R38 - Irritating to skin
R41 - Risk of serious damage to eyes
R43 - May cause sensitisation by skin contact
R50 - Very toxic to aquatic organisms

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

Additional information

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).

Revision Note

Section1

References:

U.S. 29CFR Part 1910
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization
EU Directive 91/322/EEC and 2000/39/EC
NTP 11th Report on Carcinogens

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists
IARC: International Agency for Research on Cancer
NOHSC: National Occupational Health and Safety Commission (Australia)
NTP: National Toxicology Program (US)
OSHA: Occupational Safety and Health Administration (US)
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value (ACGIH)
TSCA: Toxic Substances Control Act (US)
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Material Information System (Canada)