



SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

BRILL A5

Edition: 2.0
Date: 05/11/2012
Page: 1/5

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

1.1. Product identifier

Chemical type : Mixture
Trade name : BRILL A5
Product code : LC22

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

1.2.1. Relevant identified uses

Description/Application : Liquid rinse detergent for automatic dishwashers. For professional use only.

1.2.2. Uses advised against

No uses advised against.

1.3. Details of the supplier of the safety data sheet

CHRISTEYNS s.r.o.
Skřivánčí 359/34
742 35 Odry
T +420 556 731 111
www.christeyns.com

1.4. Emergency telephone number

National Poisons Information Service
+44 870 600 6266
worldwide: <http://www.who.int/ipcs/poisons/centre/directory/en>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Mixture: CLP classification not requested

2.1.2. Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified as dangerous.

2.1.3. Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label elements

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

Mixture: CLP classification not requested

2.2.2. Labelling according to Directive 67/548/EEC or 1999/45/EC

Danger symbols : /.
R-phrases : /.
S-phrases : S2 - Keep out of the reach of children.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of water
S36 - Wear suitable protective clothing.
S37/39 - Wear suitable gloves and eye/face protection.
S45 - In case of accident or if you fell unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

Substance meets the criteria for PBT according to regulation (EG) n°. 1907/2006, annex XIII :

Not applicable

P : no

B : no

T : no

Substance meets the criteria for vPBT according to regulation (EG) n°. 1907/2006, annex XIII :

vP : not

vB : not

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Sodium cumensulphonate	(CAS-no) 28348-53-0 (Einecs nr) 248-983-7 (EG annex nr) /	< 1	Xi; R36/37/38
Citric acid	(CAS-no) 77-92-9 (Einecs nr) 201-069-1 (EG annex nr) /	< 5	Xi; R36
Isobutanol	(CAS-no) 78-83-1 (Einecs nr) 201-148-0 (EG annex nr) /	< 1	Xi; R36/38 F; R11
Isopropanol (Propan-2-ol)	(CAS-no) 67-63-0 (Einecs nr) 200-661-7 (EG annex nr) 603-117-00-0 (REACH-no) 01-2119457558-25	< 5	Xi; R36; R67 F; R11
Alkyl-alkohol-alcoxylyate	(CAS-no) 111905-53-4 (Einecs nr) 200-573-9 (EG annex nr) 607-428-00-2	< 0,5	Xi; R36/38

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium cumensulphonate	(CAS-no) 28348-53-0 (Einecs nr) 248-983-7 (EG annex nr) /	< 1	Eye Irrit. 2; H319
Citric acid	(CAS-no) 77-92-9 (Einecs nr) 201-069-1 (EG annex nr) /	< 5	Eye Irrit. 2; H319
Isobutanol	(CAS-no) 78-83-1 (Einecs nr) 201-148-0 (EG annex nr) /	< 1	Flam. Liq. 3; H226 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336
Isopropanol (Propan-2-ol)	(CAS-no) 67-63-0 (Einecs nr) 200-661-7 (EG annex nr) 603-117-00-0 (REACH-no) 01-2119457558-25	< 5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Alkyl-alkohol-alcoxylyate	(CAS-no) 111905-53-4 (Einecs nr) 200-573-9 (EG annex nr) 607-428-00-2	< 0,5	Skin Irrit. 2; H315 Eye Irrit. 2; H319

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	: In case of doubt or persistent symptoms, consult always a physician. For symptom description, see item 11.
Inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
Skin contact	: Take off immediately all contaminated clothing. Wash off with plenty of water. In case of faintness or symptoms of skin irritation appear, take medical advice.
Eye contact	: Rinse thoroughly and plentifully with water (during 15 minutes minimum), also under the eyelids. If eye irritation persists, take medical advice.
Ingestion	: Rinse mouth, do not vomit, keep quiet, and go immediately to hospital or to a doctor.

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

Acute effects inhalation	: Not available.
Acute effects skin	: Not available.
Acute effects eyes	: Not available.
Acute effects oral route	: Not available.

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

No additional information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media**suitable extinguishing media : Product is not flammable. In fire case not far from, any kind of extinguisher can be used: foam, sand, carbon dioxide (CO₂), water.**5.2. Special hazards arising from the substance or mixture**

No additional information available.

5.3. Advice for firefighters

Use self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Concerning personal protective equipment to use, see item 8.

6.1.2. For emergency responders

High risk of slipping due to leakage of the mixture. Ensure access of fresh air.

6.2. Environmental precautions

Do not allow the mixture into drains, water courses and low-lying areas. Stop leak without risks if possible.

6.3. Methods and material for containment and cleaning up

Absorb spilled material with sand or earth. Sweep up, shovel or vacuum. Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Do not eat, drink and do not smoke in areas where product is used. Protect from direct sunlight. Do not inhale fumes and vapors. Avoid contact with skin and eyes. Comply with the applicable legislation on health and safety. Use personal protective equipment according to section 8. Observe the general safety rules for working with chemicals. Handling is not allowed unauthorized persons. Do not use compressed air to fill, handle or work up. No special handling advice required.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container. Keep out of frost. Ensure good ventilation at the workplace. Keep away from heat and direct sunlight. After handling keep container tightly closed Only store product in original container.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No additional information available.

8.2. Exposure controls

Hand protection	: Chemical resistant PVC gloves (to European standard EN 374 or equivalent).
Eye protection	: Safety glasses with side-shields (EN 166).
Protective equipment	: Wear suitable protective clothing (EN 14605).
Respiratory protection	: Not necessary with sufficient ventilation. In the case of aerosol formation use respirator with filter (EN 141).

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Physical state/form	: Liquid.
Colour	: Blue.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: 2,0 ± 0,5 (100%)
Melting point/range	: < 0 °C
Freezing point	: No data available
Boiling point/Boiling range	: /
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: >55°C not flammable
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,000 ± 0,050 g/cm ³ (20°C)
Solubility	: Water: Soluble
Log Pow	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available

Viscosity : No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

High temperatures. In normal use the mixture is stable and does not degrade.

10.5. Incompatible materials

Never mix with other materials.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicity : Not classified.

Irritation : Not classified.

Corrosivity : Not classified.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available.

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste / unused products : Collect all waste in suitable and labelled containers and dispose according to local legislation.

SECTION 14: Transport information

No dangerous good in sense of transport regulations (ADR, RID, IMDG, IATA).

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

INGREDIENT DECLARATION ACCORDING TO 648/2004/EEG

<0,5% Non-ionic surfactants.

15.1.2. National regulations

No chemical safety report for the product available.

15.2. Chemical safety assessment

No additional information available.

SECTION 16: Other information

It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with

other products.

This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet.

HISTORY

PREVIOUS REVISION DATE : 23.04.2012
REVIEW CHAPTER(S) N° : General revision of SDS.

Full text of R-, H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory tract irritation
H336	May cause drowsiness or dizziness
R11	Highly flammable.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R67	Vapours may cause drowsiness and dizziness.
F	Highly flammable
Xi	Irritant