

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **Article 609 – Rinse Aid - Dishwasher**
Synonym: -
UFI: J110-V00C-Y004-T4VY
REACH Registration No: -
Product description: Specialized liquid detergent for testing and inspecting dishwasher performance.

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

Identified uses: Reference detergent for performance testing of dishwashers. For professional use only.
Uses advised against: -

1.3 Details of the supplier of the safety data sheet

Swissatest Testmaterialien AG
Mövenstrasse 12
9015 St. Gallen
Switzerland

Telephone 0041 71 311 80 55
E-Mail info@swissatest.ch
Internet: www.swissatest.ch

1.4 Emergency telephone number

Tox Info Suisse

Telephone 145

2. Hazards identification

2.1 Classification of the substance or mixture

The product is classified as a hazardous substance based on the calculation method according to Regulation (EC) No. 1272/2008 (CLP Regulation) in its latest valid version.

Eye Irritation (Category 1), H319

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



GHS07

Signal word: WARNING

Hazard components for labelling:

Contains: Alcohols, C13-15-branched and linear, butoxylated ethoxylated

Hazard statements:

H319 Causes serious eye irritation.

Other hazard statements:

-

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Precautionary statements:

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves / protective clothing / eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

Components according to 648/2004 EG:

5 - < 15 % anionic surfactants

15 - < 30 % non-ionic surfactants

2.3 Other hazards

The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The product does not contain any components with endocrine-disrupting properties at or above 0.1%.

3. Composition/information on ingredients

3.1 Substances: The product is a mixture.

3.2 Mixtures

Ingredient	CAS No.	EC-No.	Content [wt. %]	Classification according to (EG) N° 1272/2008
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4	601-137-4	15	Eye Irrit. 2, H319 Acute Tox. 4 (oral), H302 Aquatic Chronic 3, H412
Sodium p-cumenesulphonate	15763-76-5	239-854-6	5.75	Eye Irrit. 2, H319
Citric acid monohydrate	5949-29-1	201-069-1	3	Eye Irrit. 2, H319 STOT SE 3, H335

SVHC

This preparation does not contain substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.

Further Information: -

See Section 16 for wording of H and P statements.

4. First-aid measures

4.1 Description of first aid measures

General instructions: Remove contaminated clothes and wash them before reuse. In case of symptoms, seek immediate medical attention.

After inhalation: Move the affected person to fresh air.

After skin contact: Wash with water and soap for several minutes.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and easy to do. Continue rinsing. Seek medical attention.

After ingestion: Rinse mouth and give 1-2 glasses of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Irritation / redness

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: [Adapt fire extinguishing measures to the surroundings.](#)

Unsuitable extinguishing media: [Water jet.](#)

5.2 Special hazards arising from the substance or mixture

[The product is not combustible.](#)

[Formation of hazardous smoke or vapours possible \(CO\).](#)

5.3 Advice for firefighters

[In the event of a fire, a self-contained breathing apparatus and a full protective suit should be worn. Do not inhale vapours and fumes. If safe to do so, remove the container from the hazard area.](#)

[Collect contaminated extinguishing water and dispose of it in accordance with regulations.](#)

6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

[Advice for non-emergency personnel: Ensure sufficient ventilation.](#)

[Avoid skin and eye contact. Use personal protective equipment \(see chapter 8\).](#)

[Advice for emergency responders: Personal protective equipment according to EN 469 is recommended.](#)

6.2 Environmental precautions

[Prevent release into sewers, surface water, or groundwater.](#)

6.3 Methods and material for containment and cleaning up

[Forms slippery and smearing surfaces.](#)

[Product can be disposed of by absorbant, e.g. universal binder, sand or sawdust. Dispose of product according to chapter 13. Clean spill with water.](#)

6.4 Reference to other sections

[Information on safe handling: see chapter 7.](#)

[Information on PSA: see chapter 8.](#)

[Information on disposal: see chapter 13.](#)

7. Handling and storage

7.1 Precautions for safe handling

[Provide sufficient ventilation at workplace.](#)

[Avoid skin and eye contact.](#)

[Wash hands thoroughly after handling and before break of work.](#)

[Do not eat, drink or smoke when using this product.](#)

[Observe skin protection plan.](#)

7.2 Conditions for safe storage, including any incompatibilities

Storage: [Store away from food and animal feed.](#)

Advice on storage assembly: [Keep away from strong oxidizing agents.](#)

Storage class: [10/12 \(other liquids\)](#)

7.3 Specific end use(s)

[Apart from the uses specified in Section 1.2, no other specific uses are identified.](#)

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8. Exposure control and personal protection

8.1 Control parameters

Occupational exposure limit values according to Suva:

Designation	CAS-N°	TLV	STEL
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4	-	-
Sodium p-cumenesulphonate	15763-76-5	-	-
Citric acid monohydrate	5949-29-1	2 mg/m ³ (inhalable dust fraction)	4 mg/m ³ (inhalable dust fraction)

8.2 Exposure controls

Appropriate engineering controls:

Provide appropriate decontamination and cleaning equipment (running water, eye-wash station).

Individual protective measures, personal protective equipment

Eye / face protection

Safety goggles with side protection (EN 166).

Skin protection

Use protective gloves according to EN 374-3. Glove material: butyl or nitrile rubber.

For full contact, use nitrile gloves with minimum layer thickness of 0.7 mm, break through time > 480 min. Please consult also your glove supplier for further information on the appropriate material thickness and breakthrough times.

Respiratory protection

Not necessary if sufficient ventilation is provided.

Body protection

Standard work clothing.

General protective and hygiene measures:

Do not eat, drink, or smoke during work.

Keep away from drinks, food, and animal feed.

Wash hands before breaks and at the end of work.

Use of skin protection measures in accordance with SUVA Information Sheet 44074 is recommended.

Environmental exposure controls

Compliance with local emission limit values must be ensured.

Emissions to air, water, and soil should be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colorless to slightly yellowish
Odour:	No data available
Odour threshold:	No data available
Melting point:	No data available
Boiling point:	No data available
Self-ignition	No data available
Lower / upper explosion limits:	Not applicable
Flashpoint:	Not applicable
Ignition temperature:	No data available
Decomposition temperature	No data available
pH-value (1% in water)	No data available
Kinematic Viscosity:	No data available
Solubility in water:	Soluble
log K _{ow} :	No data available
Vapour pressure:	No data available
Vapour density:	Not applicable
Density at 20 °C:	No data available
Particle characteristics	No data available

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9.2 Other information

None.

10. Stability and reactivity

10.1 Reactivity

The product is stable when used and stored according to the manufacturer's instructions for use (see chapter 7).

10.2 Chemical stability

No decomposition when used as intended (see Section 7).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Avoid direct sunlight.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

The product will not degrade to unstable products when used according to the instructions for use. In case of fire, toxic smoke gases (CO) may form.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

For ingredients: according to ECHA (unless otherwise indicated)

Designation	CAS-N°	LD ₅₀ oral (test organism)	LD ₅₀ dermal (test organism)	LC ₅₀ inhalation (test organism)
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4	> 300 - 2.000 mg/kg bw (rat)*	No data available	No data available
Sodium p-cumenesulphonate	15763-76-5	LD50 6'720 mg/kg - 7'000 mg/ kg bw (rat)	2'000 mg/kg bw (rabbit)	No data available
Citric acid monohydrate	5949-29-1	5'400 mg/kg bw (mouse)	2'000 mg/kg bw (rat)	No data available

* s. MSDS Plurafac LF221, BTC Europe, Version 6.0, 05.10.2022.

For product:

No information available.

Skin corrosion / irritation:

The product is not classified. The product does not contain substances that may cause skin irritation.

Serious eye damage / eye irritation

The product is classified. May cause serious eye irritation.

Respiratory or skin sensitization

The product is not classified. The product does not contain substances that may cause respiratory and skin sensitization.

Germ cell mutagenicity

The product is not classified. The product does not contain substances classified as mutagenic.

Carcinogenicity

The product is not classified. The product does not contain substances classified as carcinogenic.

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Reproductive toxicity

The product is not classified. The product does not contain substances classified as toxic for reproduction.

Specific target organ toxicity, repeated exposure

The product is not classified. The product does not contain substances classified as specific target organ toxicant after repeated exposure.

Specific target organ toxicity, single exposure

The product is classified. The product contains substances (3 %, w/v) that may cause specific respiratory irritation after single exposure.

Aspiration hazard

The product is not classified. The product does not contain any substances classified as aspiration hazard.

11.2 Information on other hazards

Endocrine disruption properties

This mixture does not contain any components with endocrine disrupting properties in concentrations ≥ 0.1 %, as defined in Article 57(f) of the REACH Regulation or in Delegated Regulations (EU) 2017/2100 and (EU) 2023/707. Therefore, no health-relevant effects due to endocrine disrupting properties are present.

Other information

Not known.

12. Ecological information

12.1 Toxicity

For ingredients: according to ECHA (unless otherwise indicated)

Designation	CAS-N°	Indicator	Value
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	111905-53-4	LC50 (96 h) Fish*	> 1 - 10 mg/L
		EC50 (48 h) Aquatic invertebrates*	> 1 - 10 mg/L
		EC50 (72 h) Aquatic algae und cyanobacteria*	No data available
Sodium p-cumenesulphonate	15763-76-5	LC50 (96 h) Fish	252 mg/L
		EC50 (48 h) Aquatic invertebrates	304 mg/L
		EC50 (72 h) Aquatic algae und cyanobacteria	252 mg/L
Citric acid monohydrate	5949-29-1	LC50 (96 h) Fish	100 mg/L
		EC50 (48 h) Aquatic invertebrates	50 mg/L
		EC50 (72 h) Aquatic algae und cyanobacteria	No data available

* s. MSDS Plurafac LF221, BTC Europe, Version 6.0, 05.10.2022.

For product:

No data available.

12.2 Persistence and degradability

The surfactants contained in the product are biodegradable in accordance with the requirements of Regulation (EC) No 648/2004. Data supporting this property are held at the disposal of the competent authorities of the Member States and will be made available to them upon direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No evidence of bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

This mixture does not contain any components with endocrine disrupting properties in concentrations ≥ 0.1 %, as defined in Article 57(f) of the REACH Regulation or in Delegated Regulations (EU) 2017/2100 and (EU) 2023/707. Therefore, no environmentally relevant effects due to endocrine disrupting properties are present.

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12.7 Other adverse effects

Water hazard class 1 (self-classification): slightly hazardous to water

Avoid release into the environment. Do not discharge undiluted or in large quantities into water bodies or the sewage system.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with official regulations.

Do not dispose of with household waste. Do not release into the sewage system

Product (pure product, empty and partly emptied containers)

Dispose of as separate fraction.

Waste disposal code:

Ordinance on the movement of waste SR 814.610:

20 01 30 Detergents other than those mentioned in 20 01 29

Absorbing agents polluted with product:

Dispose of as separate fraction.

Waste disposal code:

Ordinance on the movement of waste SR 814.610:

15 02 03 Absorbents, filter materials, wiping cloths other than those mentioned in 15 02 02.

14. Transport information

The product is not classified as a dangerous good according to transport regulations.

14.1 UN Number

-

14.2 UN proper shipping name

-

14.3 Transport hazard class

ADR / RID / IMDG-Code / IATA-Dangerous Goods Regulations

-

14.4 Packing group

-

14.5 Environmental hazards

Label environmentally hazardous substances

ADR / RID / IMDG-Code: -

IATA-DGR: -

14.6 Special precautions for user

-

14.7 Maritime transport in bulk according to IMO instruments

Pollution category (X, Y or Z): -

Ship type (1, 2 or 3): -

15. Regulatory information

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

Water hazard class according to AwSV:

Class 1, slightly hazardous to water.

Chemicals Ordinance (ChemO) SR 813.11:

Group according to Art. 61 ChemO: no group.

Major Accident Ordinance (MAO) SR 814.012:

Quantity threshold according to MAO: no threshold.

Guidelines to the WBF-Ordinance on Hazardous Work for Young Persons (SR 822.115.2):

No restrictions.

Maternity Protection Ordinance SR 822.111.52:

No restrictions.

Restrictions according to Chemical Risk Reduction Ordinance (ORRChem) SR 814.81:

Annexe 2.2: 5 - < 15 % anionic surfactants, 15 - < 30 % non-ionic surfactants.

VOC-Ordinance (OVOC) SR 814.018:

VOC-content: 0%.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this product by the supplier.

16. Other information

Changes made since last edition

Original version.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par route

AwSV : Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen vom 18. April 2017.

CAS: Chemical Abstracts Service

ChemO: Ordinance on Protection against Dangerous Substances and Preparations SR 813.11

CLP: Classification, Labelling and Packaging of Chemicals

EC: effect concentration

FDHA: Federal Department of Home Affairs

ECHA: European Chemicals Agency

FOEN: Federal Office for the Environment

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

IUCLID: International Uniform Chemical Information Database, ECHA.

LC: lethal concentration

LD: lethal dose

MAC: maximum admissible concentration at workplace

MAO: Ordinance on Protection against Major Accidents SR 814.012

NOEC: No Observed Effect Concentration

OVOC: Ordinance on the Incentive Tax on Volatile Organic Compounds SR 814.018

PBT: persistent, bioaccumulative, toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

vPvB: very persistent, very bioaccumulative

VOC: volatile organic compounds

ORRChem: Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles SR 814.81

STEL: Short term exposure limit

WPO: Waters Protection Ordinance

Key literature references and sources of data

Echa Chemicals Database

Gestis Online Database

MSDS of individual ingredients.

SUVA Maximum Workplace Concentration Database

Methods in accordance with article 9 of Regulation (EC) No 1272/2008 [CLP] applied for the evaluation of hazard information for substances and mixtures:

Additivity principle according to Annex 1, 3.3.3.3; Calculation methods according to Annex 1, 2.6.4.3.

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Full text of Statements referred to under sections 2 – 15:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves / protective clothing / eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

Training instructions

Employees must be regularly trained in the safe handling of the products based on the information in the safety data sheet and the local conditions of the workplace. National regulations on the training of employees in the handling of hazardous substances must be observed.

Further information

The information in this Safety Data Sheet is based on our current knowledge and complies with national and EU regulations. However, we have no control over the specific working conditions of the user. The user is responsible for ensuring compliance with all applicable legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute a guarantee of product properties.