

Material Safety Data Sheet according to Regulation (EG) No 1907/ 2006

Article 601 ECE 77

Date of issue: 03.09.2025

Date of revision: -

Version 1.0

Supersedes version: Original version

SWISS⁺atest

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

1.1 Product identifier

Trade name:

Artikel 601– ECE 77

Synonym:

Articlel 601 ECE 77

UFI.:

FF00-A05K-T00N-6RTH

REACH Registration No:

-

Product description:

Test and reference detergent, solid.

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

Identified uses:

Agents for specialized washing and cleaning processes in the manufacture and finishing of textiles. 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.

Skin Irritation (Category 2), H315

Eye Damage (Category 1), H318

2.2 Label elements

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

Hazard pictograms:



GHS05

Signal word: DANGER

Hazard components for labelling:

Contains: Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Hazard statements:

H315: Causes skin irritation

H318: Causes serious eye damage

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Precautionary statements:

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

280: Wear protective gloves, protective clothing, eye protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

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

P310: Immediately call a POISON CENTER or doctor.

Ingredients, 648/2004/EG:

5 - < 15 % anionic surfactants

≥ 30 % phosphates

< 5 % soap

< 5 % non-ionic surfactants

< 5 % EDTA

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

Designation	CAS No.	EC-No.	Content [wt. %]	Classification according to (EG) N° 1272/2008
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	-	932-051-8	3 - < 10	Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Silicic acid, sodium salt	1344-09-8	215-687-4	3 - < 5	Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 SCL [%]: ≥ 40: Skin Irrit. 2, H315; ≥ 40: Eye Irrit. 2, H319; ≥ 40: STOT SE 3, H335 ¹
Isotridecanol, ethoxylated (≥ 2.5 EO)	69011-36-5	931-138-8	3 - < 5	Eye Dam. 1, H318 Acute Tox. 4 (oral), H302 SCL [%]: >1-10: Eye Irrit. 2, H319, ≥ 10 Eye Dam.1, H318 ¹

¹According to MSDS ECE1 Waschmittel, wfk Testgewebe 03.11.2022.

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.

Additional Information:

No further information available.

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.

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After inhalation:	Move the affected person to fresh air and ensure unhindered breathing. In case of symptoms, consult a doctor.
After skin contact:	Wash skin with water and soap for several minutes. If skin irritation persists, consult a doctor.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if worn and easy to do. Continue rinsing. Seek medical attention immediately.
After ingestion:	Rinse mouth and give 1-2 glasses of water to drink. Do not induce vomiting. Consult a doctor in case of symptoms.

4.2 Most important symptoms and effects, both acute and delayed

After eye and skin 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

Product is non-combustible

Formation of toxic pyrolysis products.

Formation of hazardous smoke or vapours possible (CO, CO₂, SO_x).

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. Do not inhale dust.

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

Product can be disposed of by mechanical means. Dispose of product according to chapter 13. Clean spill with water.

6.4 Reference to other sections

For information on safe handling: see Section 7.

For information on personal protective equipment: see Section 8.

For information on disposal: see Section 13.

7. Handling and storage

7.1 Precautions for safe handling

Use only in areas with sufficient ventilation. Avoid dust formation and deposition. Remove dust deposits.

Avoid skin and eye contact.

Wash hands thoroughly after work and before breaks.

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

Follow the skin protection plan.

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7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in original container.
Store in a dry and cold place. The product is hygroscopic.
Keep apart from acids.
Store away from food and animal feed.

Advice on storage assembly: Store separately from strong acids.

Storage class: 8 (corrosive substances)

7.3 Specific end use(s)

Apart from the end uses specified in Section 1.2, no other applications are intended.

8. Exposure control and personal protection

8.1 Control parameters

Occupational exposure limit values and/or biological limit values:

Threshold limit values to be monitored at the workplace according to SUVA:					
Designation	CAS-N°	TLV (ppm)	TLV (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	-	-	-	-	-
Silicic acid, sodium salt	1344-09-8	-	-	-	-
Isotridecanol, ethoxylated (≥ 2.5 EO)	69011-36-5	-	-	-	-

General exposure limit value for inhalable dusts: 10 mg/m³

General exposure limit value for dust fraction entering alveoli: 3 mg/m³

8.2 Exposure controls and monitoring

Appropriate engineering controls:

Provide sufficient ventilation, e.g., through local exhaust ventilation. 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

Skin contact can cause severe skin burns. Use protective gloves according to EN 374-3.

Glove material: butyl or nitrile rubber, rubber, neoprene. For full contact, use butyl rubber with a min. density of 0.44 mm, the breakthrough time is >480 min. Please consult also your glove supplier for further information on the appropriate material thickness and breakthrough times for special applications.

Respiratory protection

Not necessary if sufficient ventilation is provided. For short-term exceedances of the general exposure limits for dust use particle filter P2 according to EN 143.

Body protection

Standard work clothing (EN 340).

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.

Discharge into air, water, and soil must be minimized.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

9.2 Other information

No further information available.

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

Reacts with acids and strong oxidizers.

10.4 Conditions to avoid

Avoid contact with moisture.

10.5 Incompatible materials

Acids, strong oxidants.

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 gases (CO, CO₂, SO_x) and pyrolysis products may form.

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

For ingredients according to ECHA

Designation	CAS-N°	LD ₅₀ oral (test organism)	LD ₅₀ dermal (test organism)	LC ₅₀ inhalation (test organism)
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	-	2'240 mg/kg bw (rat)	2'000 mg/kg bw (rat)	No data available
Silicic acid, sodium salt	1344-09-8	3'400 – 5'150 mg/kg bw (rat)	5'000 mg/kg bw (rat)	2.06 mg/L air (rat; 4 h)
Isotridecanol, ethoxylated (≥ 2.5 EO)	69011-36-5	>300 - 2'000 mg/kg bw (rat)*	2'000 mg/kg bw (rabbit)	No data available

*according to MSDS wfk ECE1 Waschmittel, wfk Testgewebe GmbH, 03.11.2022.

For product:

ATE-mix, oral, dermal > 2'000 mg/kg

ATE-mix, inhalation (dust, 4 h) > 5 mg/L

Skin corrosion / irritation:

The product is classified. May cause severe skin irritation.

Serious eye damage / eye irritation

The product is classified. May cause serious eye damage.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met. Product does not contain substances classified as respiratory or skin sensitizing.

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.

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. Product does not contain any classified ingredient.

Specific target organ toxicity, single exposure

The product is not classified. The Product does not contain < 10 % of classified ingredients.

Aspiration hazard

Based on available data, the classification criteria are not met. Product does not contain any classified ingredient.

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.

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12. Ecological information

12.1 Ecotoxicity For ingredients: according to ECHA (unless otherwise indicated)

Designation	CAS-N°	Indicator	Value
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	-	LC50 (96 h) aquatic invertebrates	> 1 – 10 mg/L*
		EC50 (48 h) aquatic invertebrates	> 10 – 100 mg/L*
		EC50 (72 h) aquatic algae and cyanobacteria	> 1 – 10 mg/L*
Silicic acid, sodium salt	1344-09-8	LC50 (96 h) fish	260 – 1'108 mg/L
		EC50 (48 h) aquatic invertebrates	1.7 g/L
		EC50 (72 h) aquatic algae and cyanobacteria	207 - 345.4 mg/L
Isotridecanol, ethoxylated (≥ 2.5 EO)	69011-36-5	EC50 (96 h) Fisch	> 1 – 10 mg/L*
		EC50 (48 h) aquatic ivertebrates	> 1 – 10 mg/L*
		EC50 (72 h) aquatic algae and cyanobacteria	> 1 – 10 mg/L*

*according to MSDS ECE1 Waschmittel, wfk Testgewebe GmbH, 03.11.2022.

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 Bio accumulative potential

No evidence for bioaccumulation.

12.4 Mobility in soil

No information 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.

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 hazardous waste.

Waste disposal code:

Ordinance on the movement of waste SR 814.610:

20 01 29

[S] detergents containing dangerous substances

Absorbing agents polluted with product:

Dispose of as separate fraction.

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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

-

14.6 Special precautions for user

-

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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:

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

Chemicals Ordinance (ChemO) SR 813.11:

Group according to Art. 61 ChemO: No group.

Major Accident Ordinance SR 814.012:

Quantity threshold: 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:

Textile detergent (annex 2.1), ingredients, 64812004/EG: 5 - < 15 % anionic surfactants, ≥ 30 % phosphates, < 5 % soap, < 5 % non-ionic surfactants, < 5 % EDTA

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

CLP: Classification, Labelling and Packaging of Chemicals

EC: effect concentration

ECHA: European Chemicals Agency.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC: lethal concentration

MAC: maximum admissible concentration at workplace

NOEC: No Observed Effect Concentration

PBT: persistent, bioaccumulative, toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

vPvB: very persistent, very bioaccumulative

VOC: volatile organic compounds

STEL: Short term exposure limit

Key literature references and sources of data

ECHA, Chemicals Database

SDB ECE1 Waschmittel, wfk Testgewebe GmbH, 03.11.2022

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.

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

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

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.

P302 + P352 IF ON SKIN wash with plenty of water.

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

P310 Immediately call a POISON CENTER /doctor.

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.