

SAFETY DATA SHEET

Issue Date 03/12/2025

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Beryllium Cleaning/Developing Solution

Product Number : 769-1053

Brand : SKC Inc.

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

Identified uses : Detection and cleanup of Beryllium

1.3 Details of the supplier of the safety data sheet

Company : SKC, Inc.
863 Valley View Rd.
Eighty Four, PA 15330
USA

Telephone : 724-941-9701; 800-752-8472 (Mon - Fri, 8:30 a.m. - 5:00 p.m. EST)

Fax : 724-941-1369 (Mon-Fri, 8:30 a.m. - 5:00 p.m. EST)

1.4 Emergency telephone number

Emergency Phone # : CHEMTREC at 800-424-9300 (U.S./Canada); 703-741-5970 (Global)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2A), H319

Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this section, see section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H319 : Causes serious eye irritation

H402 : Harmful to aquatic life

Precautionary statement(s)

P264 : Wash skin thoroughly after handling.

P273 : Avoid release to the environment.

P280 : Wear eye protection/face 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/attention.

P501 : Dispose of contents/container at an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous components

Component	Concentration Weight per Volume %
Ethylenediaminetetraacetic acid	≤ 1.6%
Trade secret	24-25%
Water	74.3%

Note: pH adjusted with 1M Sodium Hydroxide 0.001%.

- 3.2 Important Note:** As required by OSHA regulation, hazardous information supplied is based on exposure to reagent-grade (full-strength) chemicals. The SKC Cleaning/Developing Solution is a dilute mixture of water and the compounds listed.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

After eye contact: Rinse thoroughly with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: Immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Foam Dry powder. Avoid high volume jet water.

Unsuitable extinguishing media

For this substance/mixture, no limitations on extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NO_x)

Combustible

Development of hazardous combustion gases or vapors possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus and wear full protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the groundwater system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Avoid eye contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains, open waterways, and groundwater systems.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Soak up with inert absorbent materials. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Keep away from heat, sparks, open flame, and direct sunlight. Do not eat, drink, or smoke while using this product.
For precautions, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Cool, dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109 F (42.7 C). If separation occurs, mix the product for reconstitution.

Storage class

EDTA – Storage class (TRGS 510):11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Safety glasses or safety goggles

Skin protection

Protective gloves

Body protection

Protective clothing

Respiratory protection

Use in well-ventilated areas or local exhaust ventilation.

General hygiene

Wash thoroughly after handling and before eating or drinking.

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Clear colorless liquid
b) Odor	Odorless
c) Odor Threshold	Not applicable
d) pH	4.5 - 5
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Density	No data available
Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	None

10. STABILITY AND REACTIVITY

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Strong bases

10.4 Conditions to avoid

Excessive hot or cold

10.5 Incompatible materials

Copper, copper alloys, nickel. Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.

10.6 Hazardous decomposition products

Normal products of combustion – CO, CO₂
In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – Rat – male and female – 4500 mg/kg
(OECD Test Guideline 401)
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation

Skin – Rabbit – > 5 g/kg body weight

Serious eye damage/eye irritation

Eyes: Rabbit
Result: Eye irritation
Remarks: (ECHA)

Respiratory or skin sensitization

Maximization Test – Guinea pig
Result: Negative
(OECD Test Guideline 406)
Remarks: (in analogy to similar products)
The value is given in analogy to the following substances: Ethylenedinitrilotetraacetic acid disodium salt
Maximization Test – Rabbit
Result: Does not cause skin sensitization.

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional information

RTECS: AH4025000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish Static test LC50 – *Lepomis macrochirus* (Bluegill sunfish) – 41 mg/L – 96 h
Remarks: (ECHA)

Toxicity to daphnia
and other aquatic invertebrates Static test EC50 – *Daphnia magna* (Water flea) – 625 mg/L – 24 h
(DIN 38412)

12.2 Persistence and degradability

Biodegradability Aerobic – Exposure time 20 d
Result: 0 – 20% – Not readily biodegradable
Remarks: (ECHA)

Ratio BOD/ThBOD < 1%
Remarks: (IUCLID)

12.3 Bioaccumulative potential

Bioaccumulation *Lepomis macrochirus* – 28 d
at 21 C – 80 µg/L (Ethylenediaminetetraacetic acid)
Bioconcentration factor (BCF): 1.8

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

May be harmful to aquatic organisms due to shift of the pH. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with national and local regulation. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
(Ethylenediaminetetraacetic acid)
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

Trade secret components are listed on TSCA and DSL Inventory.

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life

Disclaimer

For approved uses only. Not for drug, household, or other uses.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last Update: March 2025