

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

cleaning liquid

Version 1.0

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SDS record number: CSSS-TCO-010-123399

1. Identification

Product name cleaning liquid

Synonyms -

CAS # See section 3

Product code -

Product use -

Manufacturer/Supplier

Supplier(Manufacturer): SHAOXING SHANGYU TIANYA PHOTOGRAPHIC EQUIPMENT FACTORY

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2. Hazard(s) identification

GHS classification

Physical hazards Not classified

Health hazards Not classified

Environmental hazards Not classified

GHS label elements

Hazard Pictograms No hazard pictogram is used.

Signal word No signal word is used.

Hazard statement Not applicable.

Precautionary statement

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

3. Composition / information on ingredients

Components	CAS#	Percent
Fatty alcohol polyoxyethylene ether	N/A	0.5%
Polyoxyethylene cocoate	N/A	0.3%
2-Butoxyethanol	111-76-2	0.5%
Butoxypropan-1-ol	29387-86-8	0.2%
Water	7732-18-5	98.5%

4. First-aid Measures

First aid procedures

Eye contact Remove contact lenses. Wash thoroughly for several minutes using copious water.

Seek medical help if necessary.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Inhalation

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Notes to physician

Treat symptoms.

5. Fire-fighting measures

Flammable properties

Not available.

Extinguishing media

Suitable extinguishing media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media

Not available.

Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

Hazardous combustion products

Not available.

6. Accidental release measures

Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.

Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system. Inform the competent authorities when water or canalization has been infiltrated.

Methods for cleaning up

Absorb with appropriate absorption material and put it into a marked container for disposal.

7. Handling and storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls / personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-butoxyethanol (CAS#111-76-2)	PEL	240 mg/m ³ 50 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol (CAS#111-76-2)	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value
2-butoxyethanol (CAS#111-76-2)	TWA	24ppm 5 ppm

Biological limit values				
ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA),with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines	
US - California OELs: Skin designation	
2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US - Minnesota Haz Subs: Skin designation applies	
2-butoxyethanol (CAS 111-76-2)	Skin designation applies.
US - Tennessee OELs: Skin designation	
2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US NIOSH Pocket Guide to Chemical Hazards: Skin designation	
2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	
2-butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.

Appropriate engineering controls: Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection	Tightly sealed goggles.
Skin protection	Wear normal working clothing.
Respiratory protection	Suitable respiratory protective device recommended.
General hygiene considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state	Liquid
Form	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	Not available
pH	7
Vapor pressure	Not available
Melting point/Freezing point	0°C
initial boiling point and boiling range	100°C

Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Density	1 g/m ³
Solubility (water)	Not available
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Specific gravity	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available
Upper/lower explosive limits	Not available
Surface tension	Not available

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Not available.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

2-butoxyethanol (CAS# 111-76-2):

LD50(Oral, Rat):	1746 mg/kg bw(male)
LD50(Dermal, Rat):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	450 ppm(female,4h)
Skin corrosion/Irritation:	Not classified.
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified

Aspiration hazard: Not classified

12. Ecological information

Toxicity:

2-butoxyethanol (CAS# 111-76-2):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	1474 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	1550 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	911 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Results of PBT&vPvB assessment: Not available.
Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:
UN number Not regulated
Proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated
Environmental hazards No

IATA

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated
Environmental hazards No

IMDG

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated
Environmental hazards No

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-butoxyethanol (CAS 111-76-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-butoxyethanol (CAS 111-76-2)

16. Other information, including date of preparation or last revision

HMIS® ratings Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0
Flammability: 1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 05-08-2017