

## Safety Data Sheet

# Spray lens cleaner

Version: V1.0.0.1

Report No.: HGNM20CXGD

Creation Date: 2020/05/07

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\*Prepared according to UN GHS (the 8th revised edition)

## 1 Identification of the chemical and supplier

### Product identifier

|                   |                    |
|-------------------|--------------------|
| Product Name      | Spray lens cleaner |
| CAS No.           | Not applicable     |
| EC No.            | Not applicable     |
| Molecular Formula | Not applicable     |

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

|                          |                              |
|--------------------------|------------------------------|
| Relevant identified uses | Please consult manufacturer. |
| Uses advised against     | Please consult manufacturer. |

### Details of the supplier of the Safety Data Sheet

|                        |   |
|------------------------|---|
| Name of the company    | WUXI OUYITE PACKING PRODUCTS CO.,LTD  |
| Address of the company | Intersection of S228 Highway and Huairen R.D, Dongang Town, Xishan District, Wuxi, Jiangsu 214196 China |
| Post code              | 214196  |
| Telephone number       | 0510-88797711   |
| Fax number             | 0510-88797711   |
| E-mail address         | ouyite@oetepacking.com  |

### Emergency phone number

|                        |               |
|------------------------|---------------|
| Emergency phone number | 0510-88799911 |
|------------------------|---------------|

## 2 Hazards identification

### Hazard classification according to GHS

|  |                |
|--|----------------|
| Hazard classification according to GHS | Not applicable |
|--|----------------|

### Label elements

|                   |                |
|-------------------|----------------|
| Hazard pictograms | Not applicable |
| Signal word       | Not applicable |

### Hazard statements

|                   |                |
|-------------------|----------------|
| Hazard statements | Not applicable |
|-------------------|----------------|

### Precautionary statements

- ◆ Prevention

|                   |                |
|-------------------|----------------|
| <b>Prevention</b> | Not applicable |
| ◆ Response        |                |
| <b>Response</b>   | Not applicable |
| ◆ Storage         |                |
| <b>Storage</b>    | Not applicable |
| ◆ Disposal        |                |
| <b>Disposal</b>   | Not applicable |

## Hazard description

### ◆ Physical and chemical hazards

|  |   |
|--|---|
|  | Liquid, soluble in water, no harm in general situation. |
|--|---|

### ◆ Health hazards

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.        |
| <b>Ingestion</b>    | Accidental ingestion of the product may be harmful to the health of the individual.  |
| <b>Skin Contact</b> | Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. |
| <b>Eye</b>          | This product may cause temporary discomfort following direct contact with the eye.   |

### ◆ Environmental hazards

|  |                                      |
|--|--------------------------------------|
|  | Please refer to 12th chapter of SDS. |
|--|--------------------------------------|

## 3 Composition/information on ingredients

| Component                               | Cas No.    | EC No.    | Concentration (weight percent, %) |
|---|------------|-----------|-----------------------------------|
| Isopropanol                             | 67-63-0    | 200-661-7 | 4.5                               |
| 2-Butoxy ethanol                        | 111-76-2   | 203-905-0 | 0.2                               |
| Sodium decyl diphenyl ether disulfonate | 36445-71-3 | 253-040-8 | 0.19                              |
| Water                                   | 7732-18-5  | 231-791-2 | 95.11                             |

## 4 First aid measures

### Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General advice</b>             | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.  |
| <b>Eye contact</b>                | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.                                   |
| <b>Skin contact</b>               | No harm in general situation. First aid is not needed.   |
| <b>Ingestion</b>                  | Never give anything by mouth to an unconscious person. Call a physician immediately.   |
| <b>Inhalation</b>                 | Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.  |
| <b>Protecting of first-aiders</b> | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

### Most important symptoms and effects, both acute and delayed

- |   |                        |
|---|------------------------|
| 1 | Please see section 11. |
|---|------------------------|

### Indication of any immediate medical attention and special treatment needed

- |   |                          |
|---|--------------------------|
| 1 | Treat symptomatically.   |
| 2 | Symptoms may be delayed. |

## 5 Firefighting measures

### Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | Use extinguishing media suitable for surrounding area.                 |
| Unsuitable extinguishing media | There is no restriction on the type of extinguisher which may be used. |

### Specific hazards arising from the substance or mixture

- |   |   |
|---|---|
| 1 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 2 | May expansion or decompose explosively when heated or involved in fire.           |

### Advice for firefighters

- |   |   |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover.   |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system.                         |

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- |   |   |
|---|---|
| 1 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 2 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.                                   |
| 3 | Use personal protective equipment. Avoid breathing vapours, mist or gas.  |

### Environmental precautions

- |   |   |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided.       |

### Methods and materials for containment and cleaning up

- |   |  |
|---|--|
| 1 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 2 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.       |
| 3 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.                                     |

## 7 Handling and storage

### Precautions for handling

- |   |   |
|---|---|
| 1 | Handling is performed in a well ventilated place.     |
| 2 | Avoid contact with eyes.                              |
| 3 | Keep away from heat/sparks/open flames/ hot surfaces. |

### Precautions for storage

- |   |                                 |
|---|---------------------------------|
| 1 | Keep containers tightly closed. |
|---|---------------------------------|

|   |  |
|---|--|
| 2 | Keep containers in a dry, cool and well-ventilated place.        |
| 3 | Keep away from heat/sparks/open flames/hot surfaces.             |
| 4 | Store away from incompatible materials and foodstuff containers. |

## 8 Exposure controls/personal protection

### Control parameters

#### Occupational Exposure limit values

| Component                    | Country/Region | Limit value - Eight hours |                   | Limit value - Short term |                   |
|------------------------------|----------------|---------------------------|-------------------|--------------------------|-------------------|
|                              |                | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| Isopropanol<br>67-63-0       | USA - OSHA     | 400                       | 980               | -                        | -                 |
|                              | South Korea    | 200                       | 480               | 400                      | 980               |
|                              | Ireland        | 200                       | -                 | 400                      | -                 |
|                              | Germany (AGS)  | 200                       | 500               | 400                      | 1000              |
|                              | Denmark        | 200                       | 490               | 400                      | 980               |
|                              | Australia      | 400                       | 983               | 500                      | 1230              |
| 2-Butoxy ethanol<br>111-76-2 | USA - OSHA     | 50                        | 240               | -                        | -                 |
|                              | South Korea    | 20                        | 97                | -                        | -                 |
|                              | Ireland        | 20                        | 98                | 50                       | 246               |
|                              | Germany (AGS)  | 10                        | 49                | 40                       | 196               |
|                              | Denmark        | 20                        | 98                | 40                       | 196               |
|                              | Australia      | 20                        | 96.9              | 50                       | 242               |

#### Biological limit values

|                                |                         |
|--------------------------------|-------------------------|
| <b>Biological limit values</b> | No relevant regulations |
|--------------------------------|-------------------------|

#### Monitoring methods

|   |   |
|---|---|
| 1 | EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |
| 2 | GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .  |

### Engineering controls

|   |  |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Set up emergency exit and necessary risk-elimination area.                             |
| 4 | Handle in accordance with good industrial hygiene and safety practice.                 |

### Personal protection equipment

|                            |   |
|----------------------------|---|
| <b>General requirement</b> | No special requirements, please see the description below.  |
| <b>Eye protection</b>      | In general situation, eye protection is not needed. In the production process, when contacting with vapour, tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). |
| <b>Hand protection</b>     | In general situation, hand protection is not needed.  |

|                                 |  |
|---------------------------------|--|
| <b>Respiratory protection</b>   | In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. |
| <b>Skin and body protection</b> | In general situation, skin and body protection are not needed.   |

## 9 Physical and chemical properties

### Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                  | Colorless clear liquid   |
| <b>Odor</b>  | No special odor  |
| <b>Odor threshold</b>                              | No information available   |
| <b>pH</b>  | 6.5~7.5  |
| <b>Melting point/freezing point(°C)</b>            | No information available   |
| <b>Initial boiling point and boiling range(°C)</b> | >35  |
| <b>Flash point(Closed cup,°C)</b>                  | No information available   |
| <b>Evaporation rate</b>                            | No information available   |
| <b>Flammability</b>                                | Not flammable  |
| <b>Upper/lower explosive limits[%(v/v)]</b>        | Upper limit: No information available; Lower limit: No information available |
| <b>Vapor pressure</b>                              | No information available   |
| <b>Relative vapour density(Air = 1)</b>            | No information available   |
| <b>Relative density(Water=1)</b>                   | No information available   |
| <b>Solubility(mg/L)</b>                            | Soluble in water   |
| <b>n-octanol/water partition coefficient</b>       | No information available   |
| <b>Auto-ignition temperature(°C)</b>               | No information available   |
| <b>Decomposition temperature(°C)</b>               | No information available   |
| <b>Kinematic viscosity</b>                         | No information available   |
| <b>Particle characteristics</b>                    | Not applicable   |

## 10 Stability and reactivity

### Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | Contact with incompatible substances can cause decomposition or other chemical reactions.   |
| <b>Chemical stability</b>                 | Stable under proper operation and storage conditions.   |
| <b>Possibility of hazardous reactions</b> | In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. |
| <b>Conditions to avoid</b>                | Incompatible materials, heat, flame and spark.  |
| <b>Incompatible materials</b>             | Oxidants, alkali metals, alkaline earth metals and aluminum. Sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.            |
| <b>Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## 11 Toxicological information

### Acute toxicity

| Component        | Cas No.  | LD <sub>50</sub> (oral) | LD <sub>50</sub> (dermal) | LC <sub>50</sub> (inhalation,4h) |
|------------------|----------|-------------------------|---------------------------|----------------------------------|
| 2-Butoxy ethanol | 111-76-2 | 470mg/kg(Rat)           | 220mg/kg(Rabbit)          | 2.175mg/L(Rat)                   |
| Isopropanol      | 67-63-0  | 5045mg/kg(Rat)          | 12800mg/kg(Rabbit)        | No information available         |

### Carcinogenicity

| ID | Cas No.    | Component                               | IARC       | NTP        |
|----|------------|---|------------|------------|
| 1  | 67-63-0    | Isopropanol                             | Category 3 | Not Listed |
| 2  | 111-76-2   | 2-Butoxy ethanol                        | Category 3 | Not Listed |
| 3  | 36445-71-3 | Sodium decyl diphenyl ether disulfonate | Not Listed | Not Listed |
| 4  | 7732-18-5  | Water                                   | Not Listed | Not Listed |

### Others

| Spray lens cleaner                |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation     | Based on available data, the classification criteria are not met |
| Skin sensitization                | Based on available data, the classification criteria are not met |
| Respiratory sensitization         | Based on available data, the classification criteria are not met |
| Reproductive toxicity             | Based on available data, the classification criteria are not met |
| STOT-single exposure              | Based on available data, the classification criteria are not met |
| STOT-repeated exposure            | Based on available data, the classification criteria are not met |
| Aspiration hazard                 | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | Based on available data, the classification criteria are not met |
| Reproductive toxicity(additional) | Based on available data, the classification criteria are not met |

## 12 Ecological information

### Acute aquatic toxicity

| Component        | Cas No.  | Fish                                    | Crustaceans                                     | Algae                                      |
|------------------|----------|---|---|--|
| 2-Butoxy ethanol | 111-76-2 | LC <sub>50</sub> : 1370mg/L (96h)(Fish) | EC <sub>50</sub> : >1000mg/L (48h)(Crustaceans) | ErC <sub>50</sub> : >1000mg/L (72h)(Algae) |
| Isopropanol      | 67-63-0  | LC <sub>50</sub> : 9640mg/L (96h)(Fish) | EC <sub>50</sub> : >1000mg/L (48h)(Crustaceans) | ErC <sub>50</sub> : >1000mg/L (72h)(Algae) |

### Chronic aquatic toxicity

| Component        | Cas No.  | Fish                     | Crustaceans                  | Algae                 |
|------------------|----------|--------------------------|------------------------------|-----------------------|
| 2-Butoxy ethanol | 111-76-2 | No information available | NOEC: >100mg/L (Crustaceans) | NOEC: 130mg/L (Algae) |
| Isopropanol      | 67-63-0  | No information available | NOEC: >100mg/L               | NOEC: 1000mg/L        |

|  |  |           |               |         |
|--|--|-----------|---------------|---------|
|  |  | available | (Crustaceans) | (Algae) |
|--|--|-----------|---------------|---------|

### Persistence and degradability

| Component | Cas No.   | Persistence (water/soil) | Persistence (air) |
|-----------|-----------|--------------------------|-------------------|
| Water     | 7732-18-5 | Low                      | Low               |

### Bioaccumulative potential

| Component | Cas No.   | Bioaccumulative potential | comments      |
|-----------|-----------|---------------------------|---------------|
| Water     | 7732-18-5 | Low                       | Log Kow=-1.38 |

### Mobility in soil

| Component | Cas No.   | Mobility in soil | Soil Organic Carbon-Water Partitioning Coefficient (Koc) |
|-----------|-----------|------------------|--|
| Water     | 7732-18-5 | Low              | 14.3   |

### Results of PBT and vPvB assessment

| Component                               | Cas No.    | Results of PBT and vPvB assessment (according to (EC) No 1907/2006) |
|---|------------|---|
| Isopropanol                             | 67-63-0    | not PBT/vPvB  |
| 2-Butoxy ethanol                        | 111-76-2   | not PBT/vPvB  |
| Sodium decyl diphenyl ether disulfonate | 36445-71-3 | not PBT/vPvB  |
| Water                                   | 7732-18-5  | not PBT/vPvB  |

## 13 Disposal considerations

### Disposal considerations

|                          |  |
|--------------------------|--|
| Waste chemicals          | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.                       |
| Contaminated packaging   | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging.   |

## 14 Transport information

### Label and Mark

|                    |                |
|--------------------|----------------|
| Transporting Label | Not applicable |
|--------------------|----------------|

### IMDG-CODE

|           |  |
|-----------|--|
| IMDG-CODE | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|-----------|--|

### ICAO/IATA-DGR

|               |  |
|---------------|--|
| ICAO/IATA-DGR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|---------------|--|

### UN-ADR

|        |  |
|--------|--|
| UN-ADR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS |
|--------|--|

## 15 Regulatory information

## International chemical inventory

| Component                               | EINECS | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AICS | ENCS |
|---|--------|------|-----|-------|-------|-------|------|------|------|
| Isopropanol                             | ✓      | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| 2-Butoxy ethanol                        | ✓      | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| Sodium decyl diphenyl ether disulfonate | ✓      | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |
| Water                                   | ✓      | ✓    | ✓   | ✓     | ✓     | ✓     | ✓    | ✓    | ✓    |

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

【ENCS】 Existing And New Chemical Substances

Note

"✓" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## 16 Others

### Information on revision

|                     |            |
|---------------------|------------|
| Creation Date       | 2020/05/07 |
| Revision Date       | 2020/05/07 |
| Reason for revision | -          |

### Reference

[1]IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2]IARC, website: <http://www.iarc.fr/>.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en).

[4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5]NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7]U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC<sub>50</sub> - Lethal Concentration 50%

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD<sub>50</sub> - Lethal Dose 50%



**NOEC** -No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**BCF** - Bioconcentration factor (BCF)

**IMDG**-International Maritime Dangerous Goods

**UN**-The United Nations

**NFPA**-National Fire Protection Association

**EC<sub>50</sub>** - Effective Concentration 50%

**POW** - Partition coefficient Octanol: Water

**vPvB** - very Persistent, very Bioaccumulative

**ICAO/IATA**-International Civil Aviation Organization/International Air Transportation Association

**ACGIH**-American Conference of Governmental Industrial Hygienists

**OECD**-Organization for Economic Co-operation and Development

## **Disclaimer**

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.