

SAFETY DATA SHEET



UNIQ[®] FLOW 415 S

Version 3.6 EU

Revision Date: 2019.08.16

Print Date: 2019.08.16

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

UNIQ[®] FLOW 415 S

Use: industrial chemicals

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Emergency information:

Emergency number:

Tel: +86 21 5433 6481

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3, H226: Flammable liquid and vapour.

Specific target organ toxicity - single exposure, Category 3 (Central nervous system),

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Signal word: Warning

Hazard statements:

H226: Flammable liquid and vapour.

H336: May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/light/.../equipment.

P260: Do not breathe dust/ fume/ gas/ mist/vapours/ spray.

P273: Avoid release to the environment.

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

Response:

P303 + P361 + P353: IF ON SKIN (or hair), Remove/ Take off immediately all contaminated

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clothing. Rinse skin with water/ shower.

P304+P340: IF INHALED, remove victim to fresh air and keep at rest in a position.

P312: CALL a POISON CENTER or doctor/physician if you feel unwell.

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with national, state and local regulations.

3. Composition/Information on Ingredients

3.1 Mixtures

Chemical nature: Solution of modified silicone polymer

Hazardous components

Chemical Name	CAS-No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
n-butyl acetate	123-86-4	H226, H336	80-90

For explanation of abbreviations see section 16.

4. First-Aid Measures

4.1 Description of first aid measures

General advice:

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled:

If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact:

If skin irritation persists, call a physician.

If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact:

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Protect unharmed eye.

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Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed:

Keep respiratory tract clear.

Do not induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry chemical

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products: Carbon oxides Nitric oxides

5.3 Advice for firefighters

Special protective equipment

Wear self-contained breathing apparatus for firefighting, for firefighters if necessary.

Further information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

Use a water spray to cool fully closed containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.

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Ensure adequate ventilation.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13, For personal protection see section 8.

7. Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling:

Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures:

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers:

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.

Observe label precautions.

Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage:

No materials to be especially mentioned

7.3 Specific end use(s)

Specific use(s): No data available

8. Exposure Controls/Personal Protection

8.1 Control parameters:

Components	CAS-No.	Type	Control parameters	
			Value (ppm)	Value (mg/m ³)
n-butyl acetate	108-65-6	TWA	150	724
		STEL	200	966

8.2 Exposure controls

Personal protective equipment

Hand protection:

Material: 4H

Break through time: 240 min

Glove thickness: 0.7 mm

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection:

Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection:

Impervious clothing.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection:

In the case of vapour formation, use a respirator with an approved filter.

Environmental exposure controls

General advice:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains, inform respective authorities.

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Clear Colorless
Odor:	Slight, characteristic
pH:	No data available
Flash point:	26 °C, Method: 48 (Abel-Pensky)
Ignition temperature:	>400 °C
Initial boiling point:	124 °C
Upper explosion limit:	10.4 %(V)
Lower explosion limit:	3 %(V)
Density:	0.90 g/cm ³ (20 °C)
Bulk density:	Not applicable
Solubility(ies)	
Water solubility:	Immiscible
Solubility in other solvents:	No data available
Viscosity (Viscosity, kinematic):	No data available

9.2 Other information

Surface tension:	No data available
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10. Stability and Reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions:

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid: Heat, flames, sparks and strong oxidant.

10.5 Incompatible materials

Materials to avoid: No data available.

10.6 Hazardous decomposition products

Oxycarbide

11. Toxicological Information

11.1 Information on toxicological effects

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Acute toxicity

Acute oral toxicity:

No data available

Acute inhalation toxicity:

No data available

Acute dermal toxicity:

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Sensitization, skin or respiratory

No data available

Target Organ Systemic Toxicant - Single exposure

May cause drowsiness or dizziness.

Target Organ Systemic Toxicant - Repeated exposure

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Effects on foetal development

No data available

Repeated dose toxicity

No data available

12. Ecological Information

12.1 Toxicity

Toxicity to fish: No data available

12.2 Persistence and degradability

Biodegradability: No data available

12.3 Bioaccumulative potential

Bioaccumulation: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/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 Other adverse effects

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Additional ecological information: No data available

13. Disposal Considerations

13.1 Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Land transport ADR / RID:

Class: 3

Packaging group: III

UN number: 1993

ADR/RID-Labels: 3

Description of the goods: FLAMMABLE LIQUID, N.O.S. (n-butyl acetate)

Sea transport IMDG:

Class: 3

Packaging group: III

UN number: 1993

IMDG-Labels: 3

EmS number: F-E, S-E

Description of the goods: FLAMMABLE LIQUID, N.O.S. (n-butyl acetate)

Marine pollutant: No

Air transport IATA-DGR :

Class: 3

Packaging group: III

UN number: 1993

IATA-DGR-Labels: 3

Description of the goods: FLAMMABLE LIQUID, N.O.S. (n-butyl acetate)

15. Regulatory Information

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

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Inventory of Existing Chemical Substances in China (IECSC): All components are listed or exempted.

European Inventory of Existing Commercial Chemical Substances (EINECS) & European List of Notified Chemical Substances (ELINCS): All components are listed or exempted.

Switzerland List of Toxic Substances (Giftliste 1) & Switzerland Inventory of Notified New Substances (INNS): All components are listed or exempted.

Toxic Substance Control Act (TSCA): All components are listed or exempted.

Canada Domestic Substances List (DSL) & Canada Non-Domestic Substances List (NDSL): All components are listed or exempted.

Australia Inventory of Chemical Substances (AICS): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Japan Chemical Substance Control Law (CSCL): All components are listed or exempted.

Japan Industrial Safety and Health Law (ISHL): This product contains no chemical substances regulated by ISHL.

Class I & II Specified Chemical Substances in CSCL: All components are not listed.

Korean Existing Chemicals List (KECL): All components are listed or exempted.

Philippines Inventory of Chemicals and Chemical Substances (PICCS): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59): This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major accident hazards involving dangerous substances: Not applicable

15.2 Chemical Safety Assessment

Not applicable

16. Other Information

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.