Date of issue : Dec/02/2024

Safety Data Sheet

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

Product identifier:

Product name: Uniway XS68

Product code (SDS NO): BQN_E_20619_US-1

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

Relevant identified uses of the product: Lubricants

Uses advised against: Do not use for any purpose other than that recommended.

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Mitsubishi Electric Corporation

Address: 5-1-14, Yada-minami, Higashi-ku, Nagoya-shi, Aichi 461-8670, Japan

Division: EDM Systems Dept

Telephone number: +81-52-721-2111

FAX: +81-52-721-3956

Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Not classified/Classification not possible

Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

No GHS label element

No Signal word

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	CAS No.	Content (%)
Lubricant Base Oil	Trade secret	90 - 99
Lubricant Additive	Trade secret	< 10
2,6-Di-tert-butyl-p-cresol	128-37-0	0.1 - 0.9
Mineral oil (additive)	Trade secret	0.1 - 0.9

Note : The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Keep victim warm and quiet.

Give artificial respiration if victim is not breathing.

Get immediate medical advice/attention.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Call a POISON CENTER/doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

(Symptoms when inhalation or ingestion)

Diarrhoea, Vomiting

(Symptoms when skin and/or eye contact)

Inflammation

Indication of any immediate medical attention and special treatment needed

Information on indication of any immediate medical attention and special treatment needed is not available.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Do not use direct water jet.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Apply water from a safe distance to cool and protect surrounding area.

Move containers from fire area if this can be done without risk.

Extinguish from the windward to the extent possible.

Special protective equipment and precautions for fire-fighters

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

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Stand at upwind. Evacuate personnel at downwind.

Stop leak if safe to do so.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

If flown out into rivers, contact competent authorities.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
For large spill, dike for later disposal.
Fill the disposal into labelled, closable containers.
Use clean non-sparking tools to collect absorbed material.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.
Avoid contact with eyes.

Safety Measures

Use only outdoors or in a well-ventilated area.
Use personal protective equipment as required.
Do not pressure container.
Do not weld, heat, drill and cut container.

Any incompatibilities

Strong acids, Bases, Oxidizing agents, Halogens should not be mixed with the chemicals.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.
Keep cool. Protect from sunlight.

(Incompatible storage condition)

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection

Control parameters

Adopted value

(Lubricant Base Oil)
ACGIH(2010) TWA: 5mg/m3(I)(as Pure, highly and severely refined Mineral oil, excluding metal working fluids)(URT irr)
(2,6-Di-tert-butyl-p-cresol)
ACGIH(2001) TWA: 2mg/m3(IFV) (URT irr)
(Mineral oil (additive))
ACGIH(2010) TWA: 5mg/m3(I)(as Pure, highly and severely refined Mineral oil, excluding metal working fluids)(URT irr)

OSHA-PEL value is not available.

NIOSH-REL value is not available.

Exposure controls
Appropriate engineering controls
Handle this material only in a totally enclosed system.
Exhaust/ventilator should be available.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
In case of inadequate ventilation wear respiratory protection.
Hand protection
Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber
Eye protection
Wear safety glasses with side-shields or chemical safety goggle.
Skin and body protection
Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties
Physical state: Liquid
Color: Pale brown
Odor: Slight odor
Odor threshold data is not available.
Melting point/Freezing point: -27.5℃(Pour Point)
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids): Combustible
Lower and upper explosion limit/flammability limit:
Lower explosion limit: 1vol %
Upper explosion limit: 7vol %
Flash point: >=250℃(Cleveland open cup method)
Auto-ignition temperature: 200 - 410℃
Decomposition temperature data is not available.
pH data is not available.
Kinematic viscosity: >20.5mm2/s(40℃)
Solubility:
Solubility in water: Insoluble
Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density: 0.874(15℃)
Relative vapor density (Air=1) data is not available.
Particle characteristics: Not applicable
Evaporation rate data is not available.

Section 10. Stability and Reactivity

Reactivity
Reactivity data is not available.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
Mixing with a strong oxidizer may cause intense chemical reaction.

Conditions to avoid

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Incompatible materials

Strong acids, Bases, Oxidizing agents, Halogens

Hazardous decomposition products

The following substances are produced by pyrolysis.

Carbon oxides

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Company proprietary data]

(Lubricant Base Oil)

rat LD50: >= 5000 mg/kg (Supplier's SDS)

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Company proprietary data]

(Lubricant Base Oil)

rat LD50: >= 5000 mg/kg (Supplier's SDS)

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Company proprietary data]

(Lubricant Base Oil)

mist: rat LC50: >= 5 mg/L/4hr (Supplier's SDS)

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]
No data available.

Germ cell mutagenicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

Carcinogenicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[IARC]
(Lubricant Base Oil)
Group 3 : Not classifiable as to its carcinogenicity to humans
(2,6-Di-tert-butyl-p-cresol)
Group 3 : Not classifiable as to its carcinogenicity to humans
(Mineral oil (additive))
Group 3 : Not classifiable as to its carcinogenicity to humans
[ACGIH]
(Lubricant Base Oil)
A4(as Pure, highly and severely refined Mineral oil, excluding metal working fluids)(2010) :
Not Classifiable as a Human Carcinogen
(2,6-Di-tert-butyl-p-cresol)
A4(2001) : Not Classifiable as a Human Carcinogen
(Mineral oil (additive))
A4(as Pure, highly and severely refined Mineral oil, excluding metal working fluids)(2010) :
Not Classifiable as a Human Carcinogen

Reproductive toxicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

Specific target organ toxicity (STOT)
STOT-single exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

STOT-repeated exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

Aspiration hazard
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Water solubility

(2,6-Di-tert-butyl-p-cresol)

0.00006 g/100 mL (25℃) (source: ICSC, 1999)

Persistence and degradability

[Data for components of the product]

(2,6-Di-tert-butyl-p-cresol)

Not rapidly degradable (Degradation rate: 4.5% (by BOD)) (source: NITE)

[Company proprietary data]

(Lubricant Base Oil)

Not rapidly degradable (Degradation rate: 31%/28days) (Supplier's SDS)

Bioaccumulative potential

[Data for components of the product]

(2,6-Di-tert-butyl-p-cresol)

log Pow: 5.1 (source: ICSC, 1999)

Mobility in soil

[Company proprietary data]

(Lubricant Base Oil)

log KOC >= 3 (Similar substance) (Supplier's SDS)

Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no

Special precautions for user

Special precautions for user is not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable to Transport in bulk according to Annex II of MARPOL and the IBC Code

MARPOL Annex V – HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

Section 15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

2,6-Di-tert-butyl-p-cresol

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard – 2012 (29 CFR 1910.1200)

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)) & US Hazard Communication Standard – 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.