

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

Date of issue for the 1st edition : 21/Nov/2024

## Safety Data Sheet

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

Product identifier:

Product name: Wetting tension test mixture 40.0mN/m

Reference number(SDS):55060jis\_E-1

Product type:

Reagent

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

Relevant identified uses of the product: Wetting tension test(JIS K6768:1999)

Uses advised against: Do not use for other purposes.

Details of the supplier of the safety data sheet

Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.

Address: 1-6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan

Division: Quality Assurance Department

Telephone number: +81-48-986-6161

FAX: +81-48-989-2787

e-mail address: shiyaku-t@junsei.co.jp

### Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

**PHYSICAL AND CHEMICAL HAZARDS**

Flammable liquids: Category 3

**HEALTH HAZARDS**

Serious eye damage/eye irritation: Category 2B

Carcinogenicity: Category 2

Reproductive toxicity: Category 1B

Specific target organ toxicity – single exposure: Category 1 (central nervous system, blood system, kidney, liver)

Specific target organ toxicity – single exposure: Category 3 (Narcotic effects)

Specific target organ toxicity – repeated exposure: Category 1 (blood system, testis)

Specific target organ toxicity – repeated exposure: Category 2 (male reproductive organs)

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger

**HAZARD STATEMENT**

H226-Flammable liquid and vapor

H320-Causes eye irritation

H351-Suspected of causing cancer

H360-May damage fertility or the unborn child

H370-Causes damage to organs

H336-May cause drowsiness or dizziness

H372-Causes damage to organs through prolonged or repeated exposure

H373-May cause damage to organs through prolonged or repeated exposure

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

#### PRECAUTIONARY STATEMENT

##### Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use non-sparking tools.
- Take action to prevent static discharges.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wash contaminated parts thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not eat, drink or smoke when using this product.

##### Response

- In case of fire: Use foam, dry powder, CO2 to extinguish.
- Get medical advice/attention if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTER/doctor/physician if you feel unwell.
- IF exposed or concerned: Call a POISON CENTER/doctor/physician.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- 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.

##### Storage

- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Store locked up.

##### Disposal

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

##### Specific Physical and Chemical hazards

- Flammable liquid. Vapor/air mixture may explode.

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### Section 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Mixture

Common name, synonyms: Wettability standard solution No.40

Ingredient name:Formamide

Content (%):67.9

Chemical formula:CH<sub>3</sub>NO

ENCS:2-681

CAS No.:75-12-7

MW:45.04

EC No.:200-842-0

Ingredient name:Ethylene glycol monoethyl ether

Content (%):32.1

Chemical formula:C<sub>4</sub>H<sub>10</sub>O<sub>2</sub>

ENCS:2-411;2-2424; 7-97

CAS No.:110-80-5

MW:90.12

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

EC No.:203-804-1

Colorant(Victoria Pure Blue BO): ca. 0.03%

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

Components contributing to the hazard

Toxic for reproduction (Article 57c) in REACH SVHC candidate list

Ethylene glycol monoethyl ether; Formamide

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#### Section 4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical advice/attention if you feel unwell.

Keep victim warm and quiet.

Call emergency medical service.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Give artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

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

IF ON SKIN (or hair)

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

In case of burns, immediately cool affected skin for as long as possible with cold water.

Do not remove clothing if adhering to skin.

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

Remove and isolate contaminated clothing and shoes.

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.

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

Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

Indication of any immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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#### Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

Special protective equipment and precautions for fire-fighters

- Wear fire resistant or flame retardant clothing.
- 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.

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Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

- Keep unauthorized personnel away.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ventilate area until material pick up is complete.
- Wear proper protective equipment.
- PUBLIC SAFETY: Ventilate closed spaces before entering.
- Do not touch or walk through spilled material.

Environmental precautions

- Runoff to sewer may create fire or explosion hazard.
- Vapor explosion hazard indoors, outdoors or in sewers.
- Avoid release to headsprings, rivers, lakes, ocean and groundwater.

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.
- Use clean non-sparking tools to collect absorbed material.
- All equipment used when handling the product must be grounded.

Preventive measures for secondary accident

- Collect spillage.
- Stop leak if you can do it without risk.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Prevent entry into waterways, sewers, basements or confined areas.
- Keep out of low areas.

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Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

- Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Ground and bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use non-sparking tools.
- 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

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

When using do not eat, drink or smoke.

Any incompatibilities

Acids, Bases, Strong oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store in accordance with local/national regulation.

Store locked up.

Container and packaging materials for safe handling

Keep only in original packaging.

Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See  
Section 8 for exposure controls and personal protection recommendations.

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## Section 8. Exposure controls/personal protection

Control parameters

Control value and Concentration standard value

(Ethylene glycol monoethyl ether)

Japan control value 5ppm

Adopted value

(Ethylene glycol monoethyl ether)

JSOH(1985) 5ppm; 18mg/m<sup>3</sup> (skin)

ACGIH(2003) TWA: 5ppm (Male repro dam; embryo/fetal dam)

(Formamide)

Adopted value in JSOH is not available.

ACGIH(2020) TWA: 1ppm (Hematological eff; liver cancer; developmental toxicity)

[ACGIH] Notation

(Formamide)

Skin

(Ethylene glycol monoethyl ether)

Skin

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Select and wear respiratory protection in accordance with approved standards (e.g. JIS T8150).

Recommended respiratory protection: Gas mask

Hand protection

Wear protective gloves. Recommended material(s): butyl rubber

Inspect before use and replace worn or damaged gloves.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Chemical-resistant, impervious gloves complying with an approved standard (e.g. JIS T8116) should be used.

Eye protection

Wear safety glasses with side-shields.

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

Wear eye/face protection in accordance with approved standards (e.g. JIS T8147).

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

Personal protective equipment for the body and skin should be selected based on the task being performed and the risks involved.

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## Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Blue

Odor: Characteristic odor

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: (Ethylene glycol monoethyl ether)135°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point: (Ethylene glycol monoethyl ether)44°C(C.C.)

Auto-ignition temperature: (Ethylene glycol monoethyl ether)235°C

Decomposition temperature data is not available.

Self-Accelerating Decomposition Temperature/SADT data is not available.

pH data is not available.

Dynamic viscosity data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Miscible

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 data is not available.

Relative vapor density (Air=1) data is not available.

Relative density of the Vapor/air – mixture at 20°C (Air = 1) data is not available.

Particle characteristics data is not available.

Other information

Critical temperature data is not available.

Evaporation rate data is not available.

VOC data is not available.

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## Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Flammable.

Possibility of hazardous reactions

Decomposes with heating. This produces toxic and corrosive gases including ammonia and hydrogen cyanide.

Reacts with oxidants, acids and bases. This generates fire and toxic hazard.

Attacks aluminium, brass, copper, iron, lead and plastic.

Conditions to avoid

Contact with incompatible materials.

Open flames. Heating.

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

Incompatible materials

Acids, Bases, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides, Nitrogen oxides, Ammonia. Hydrogen cyanide.

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Section 11. Toxicological Information

The product has not been subjected to toxicological testing. Refer to the available data on the constituents.

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]

[NITE-CHRIP]

(Formamide)

rat LD50: 3200 mg/kg (source: NITE)

(Ethylene glycol monoethyl ether)

rat LD50: 2125 – 5720 mg/kg (source: NITE)

Acute toxicity (Dermal)

[Product]

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

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

rabbit LD50: > 6000 mg/kg (source: NITE)

(Ethylene glycol monoethyl ether)

rabbit LD50: 3311 – 15200 mg/kg (source: NITE)

Acute toxicity (Inhalation)

[Product]

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

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

mist: rat LC50: > 3900 ppm (6-hour) (converted 4-hour equivalent value: > 10.8 mg/L)

(source: NITE)

(Ethylene glycol monoethyl ether)

vapor: rat LC50: 15.2 mg/L (4-hour) (source: NITE)

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]

Category 2B, Causes eye irritation

[Data for components of the product]

[NITE-CHRIP]

(Ethylene glycol monoethyl ether)

Category 2B (source: NITE)

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

#### 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]

Category 2, Suspected of causing cancer

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

Category 2 (source: NITE)

[ACGIH]

(Formamide)

A3(2020) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### Reproductive toxicity

[Product]

Category 1B, May damage fertility or the unborn child

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

Category 1B (source: NITE)

(Ethylene glycol monoethyl ether)

Category 1B (source: NITE)

#### Specific target organ toxicity (STOT)

##### STOT-single exposure

[Product]

Category 1, Causes damage to organs

Category 3, May cause drowsiness or dizziness

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

Category 3 (Narcotic effects) (source: NITE)

(Ethylene glycol monoethyl ether)

Category 1 (blood system, liver, central nervous system, kidneys) (source: NITE)

##### STOT-repeated exposure

[Product]

Category 1, Causes damage to organs through prolonged or repeated exposure

Category 2, May cause damage to organs through prolonged or repeated exposure

[Data for components of the product]

[NITE-CHRIP]

(Formamide)

Category 2 (male genitalia) (source: NITE)

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

(Ethylene glycol monoethyl ether)  
Category 1 (blood system, testis) (source: NITE)

Aspiration hazard

[Product]

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

[Data for components of the product]

No data available.

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## Section 12. Ecological Information

The product has not been subjected to ecotoxicological testing. Refer to the available data on the constituents.

### Ecotoxicity

#### Aquatic toxicity

[Product]

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

[Data for components of the product]

#### Hazardous to the aquatic environment, short-term (acute)

[NITE-CHRIP]

(Formamide)

Algae (*Pseudokirchneriella subcapitata*) 72-hour ErC50: > 1000 mg/L (source: NITE)

Crustacea (*Daphnia magna*) 48-hour EC50: > 500 mg/L (source: NITE)

Fish (*Oryzias latipes*) 96-hour LC50: > 100 mg/L (source: NITE)

(Ethylene glycol monoethyl ether)

Algae (*Pseudokirchneriella subcapitata*) 72-hour ErC50: > 100 mg/L (source: NITE)

Crustacea (*Daphnia magna*) 48-hour EC50: > 89.5 mg/L (source: NITE)

Fish (*Oryzias latipes*) 96-hour LC50: > 94.7 mg/L (source: NITE)

#### Hazardous to the aquatic environment, long-term (chronic)

[NITE-CHRIP]

(Formamide)

Algae (*Pseudokirchneriella subcapitata*) 72-hour NOEC: > 10 mg/L (source: NITE)

(Ethylene glycol monoethyl ether)

Algae (*Pseudokirchneriella subcapitata*) 72-hour NOEC (growth rate): 100 mg/L (source: NITE)

Crustacea (*Daphnia magna*) 21-day NOEC: > 97 mg/L (source: NITE)

#### Water solubility

[Data for components of the product]

(Formamide)

not poorly water-soluble (100 mg/L) (source: NITE)

(Ethylene glycol monoethyl ether)

1000g/L (source: NITE)

#### Persistence and degradability

[Data for components of the product]

(Formamide)

Rapidly degradable (Degradation rate: 99% (by BOD)) (OECD TG 301A, GLP) (source: NITE)

(Ethylene glycol monoethyl ether)

Rapidly degradable (Degradation rate: 63, 83, 83% (by BOD)) (source: NITE)

#### Bioaccumulative potential

[Data for components of the product]

(Formamide)

log Pow: -1.51 (source: ICSC, 2013)

(Ethylene glycol monoethyl ether)

log Pow: -0.540 (source: ICSC, 2024)

#### Mobility in soil

Mobility in soil data is not available.

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

Other adverse effects

Ozone depleting chemical data is not available.

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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.

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Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number : 1993

UN Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Packing group : III

ERG GUIDE No.: 128

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : 1993

UN Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Packing group : III

IATA (Dangerous Goods Regulations)

UN Number or ID Number : 1993

UN Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Hazard labels : Flamm.liquid

Packing group : III

Environmental hazards

Marine pollutants (yes/no) : no

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

Noxious Liquid Substances ; Cat. Y

Formamide

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

Reproductive toxicity: cat.1, 1A, 1B

Formamide; Ethylene glycol monoethyl ether

Specific target organ toxicity – repeated exposure: cat.1

Ethylene glycol monoethyl ether

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Section 15. Regulatory Information

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

List of substances subject to authorisation (REACH, Annex XIV)/SVHC – candidate list

Toxic for reproduction (Article 57c)

Ethylene glycol monoethyl ether; Formamide

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

Chemicals listed in TSCA Inventory

75-12-7; 110-80-5

All components are listed or exempted.

Superfund Amendments and Reauthorizations Act (SARA), Title III

SARA 313 (TRI)

Ethylene glycol monoethyl ether; Formamide

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

#### 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.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

#### Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

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### Section 16. Other information

#### GHS classification and labelling

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

H320-Serious eye damage/eye irritation, Category 2B: H320 Causes eye irritation

H351-Carcinogenicity, Category 2: H351 Suspected of causing cancer

H360-Reproductive toxicity, Category 1B: H360 May damage fertility or the unborn child

H370-STOT – single exposure, Category 1: H370 Causes damage to organs

H336-STOT – single exposure, Category 3, Narcotic effects: H336 May cause drowsiness or dizziness.

H372-STOT – Repeated exposure, Category 1: H372 Causes damage to organs through prolonged or repeated exposure

H373-STOT – Repeated exposure, Category 2: H373 May cause damage to organs through prolonged or repeated exposure

#### 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)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2023 Recommendation on TLVs (JSOH)

Notification No. 0111-1 (January 11, 2022), Chemical Hazards Control Division, Industrial

Safety and Health Department, Labour Standards Bureau, MHLW in Japan

Supplier's data/information

Chemicals safety data management system "GHS Assistant" Version 4.31 (<https://www.asahi-ghs.com/>)

NITE Chemical Risk Information Platform "NITE-CHRIP"

([https://www.chem-info.nite.go.jp/chem/chrip/chrip\\_search/systemTop](https://www.chem-info.nite.go.jp/chem/chrip/chrip_search/systemTop))

GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.1) (May. 2024, METI)

#### Abbreviations and acronyms

SDS (Safety Data Sheet)

LD50 (Lethal Dose, 50%)

LC50 (Lethal Concentration, 50%)

IARC (International Agency for Research on Cancer)

ACGIH (American Conference of Governmental Industrial Hygienists)

EPA (US Environmental Protection Agency)

NTP (US National Toxicology Program)

METI (Ministry of Economy, Trade and Industry in Japan)

MHLW (Ministry of Health, Labour and Welfare in Japan)

Wetting tension test mixture 40.0mN/m,  
JUNSEI CHEMICAL CO., LTD.,55060jis\_E-1,21/Nov/2024

MOE (Ministry of the Environment in Japan)  
JSOH (Japan Society for Occupational Health)  
ISHA (Industrial Safety and Health Act in Japan)  
CSCL (Chemical Substances Control Law in Japan)  
EU (European Union)  
EC50 (Effective Concentration, 50%)  
NOEC (No Observed Effect Concentration)  
BOD (Biochemical Oxygen Demand)  
COD (Chemical Oxygen Demand)  
BCF (Bioconcentration Factor)  
anh (anhydride)

#### General Disclaimer

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.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Data published in Japan (National Institute of Technology and Evaluation (NITE) Chemical Risk Information Platform (NITE-CHRIP), up to FY2023).