

Safety Data Sheet

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

Product identifier:

Product name: Naphtha, solvent

Reference number(SDS): 42075jis_E-3

Product type:

Reagent

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

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

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2B

Carcinogenicity: Category 2

Reproductive toxicity: Category 1B

Specific target organ toxicity – single exposure: Category 2 (central nervous system, respiratory system, liver, kidney)

Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation)

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

Specific target organ toxicity – repeated exposure: Category 1 (central nervous system, respiratory system)

Specific target organ toxicity – repeated exposure: Category 2 (nervous system)

Aspiration hazard: Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment (Acute): Category 2

Hazardous to the aquatic environment (Long-term): Category 2

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

Label elements



Signal word: Danger

HAZARD STATEMENT

H226-Flammable liquid and vapor

H315-Causes skin irritation

H320-Causes eye irritation

H351-Suspected of causing cancer

H360-May damage fertility or the unborn child

H371-May cause damage to organs

Naphtha, solvent, JUNSEI CHEMICAL CO., LTD., 42075jis_E-3, 2021/09/03

H335–May cause respiratory irritation

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

H304–May be fatal if swallowed and enters airways

H402–Harmful to aquatic life

H411–Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

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.

Use personal protective equipment as required.

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

Response

In case of fire: Use appropriate media other than water to extinguish.

Collect spillage.

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: Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor/physician.

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.

3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Chemical identification: Petroleum distillate

(Trimethyl benzene 50~60%; 1,3,5-Trimethyl benzene 12%; Cumene 0~10%; Xylene 3%)

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

Common name, synonyms: Solvent, naphtha

Ingredient name: Naphtha

Content (%):(as Boiling range (150~175°C)) 95 vol%<

CAS No.: 8030-30-6

ECNO: 232-443-2

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.

Wash with plenty of soap and water.

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

If skin irritation occurs: Get medical advice/attention.

Remove and isolate contaminated clothing and shoes.

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 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.

Immediately call a POISON CENTER/doctor/physician.

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

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

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.

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

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 full face piece operated positive pressure mode.

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.

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.

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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.

When using do not eat, drink or smoke.

Any incompatibilities

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.

Take off contaminated clothing and wash it before reuse.

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 data is not available.

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.

8. Exposure controls/personal protection

Control parameters

Control value

(Xylene (Mixture of isomers))

Japan control value (2004) ≤ 50ppm

Adopted value

(1,3,5-Trimethyl benzene)

JSOH(1984) 25ppm; 120mg/m³

ACGIH(1987) TWA: (25ppm) (CNS impair; asthma; hematologic eff)

(Cumene)

JSOH(2019) 10ppm; 50mg/m³ (dermal)

ACGIH(2020) TWA: 5ppm (URT adenoma; neurological eff)

(Xylene (Mixture of isomers))

JSOH(2001) 50ppm; 217mg/m³

ACGIH(1996) TWA: (100ppm)

STEL: (150ppm) (URT & eye irr; CNS impair)

(Trimethyl benzene (mixed isomers))

Adopted value in JSOH is not available.

ACGIH(1987) TWA: (25ppm) (CNS impair; asthma; hematologic eff)

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

Wear respiratory protection.

Hand protection

Wear protective gloves.

Consult with your glove and/or personnel equipment manufacturer for selection of appropriate compatible materials.

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Wear eye/face protection.

Skin and body protection

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

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor: Solvent odor

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: 144.4~181.0°C

Boiling range data is not available.

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

Lower and upper explosion limit/flammability limit:

Lower explosion limit: 1vol %

Upper explosion limit: 8vol %

Flash point: 34.4°C

Auto-ignition temperature: 480°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: Slightly soluble

Solubility in solvent: Soluble in benzene, toluene, xylene, etc.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Vapor density data is not available.

VOC data is not available.

Evaporation rate data is not available.

Density and/or relative density: 0.864~0.875 g/ml(20°C)

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.

Critical temperature data is not available.

Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Runaway polymerization will not occur.

Chemical stability

Stable under normal storage/handling conditions.

Flammable.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Contact with incompatible materials.

Open flames. Heat. Sparks.

Incompatible materials

Oxidizing agents, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

(Cumene) rat LD50=2700mg/kg (EU-RAR, 2001)

(Xylene (Mixture of isomers)) rat LD50=3500~8800mg/kg (NITE risk assessment, 2008)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(Xylene (Mixture of isomers)) rabbit LD50=1700mg/kg (EPA Pesticide, 2005)

Acute toxicity (Inhalation)

[GHS Cat. Japan, base data]

(Cumene) vapor: rat LC50=2000ppm/4hr (DFGMAK-Doc.13, 1999)

(Xylene (Mixture of isomers)) vapor: rat LC50=6350~6700ppm/4hr (NITE primary risk assessment, 2008)

Labor standard law, Japan; Toxic

Xylene (Mixture of isomers)

Irritant properties

Skin corrosion/irritation

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers))

animal : primary irritation (ACGIH 7th, 2001)

(1,3,5-Trimethyl benzene)

rabbit : moderate to severe irritation (NITE primary risk assessment, 2008)

(Xylene (Mixture of isomers))

rabbit : erythema, edema, necrosis (Hazard Assessment Report(CERI, NITE), 2008)

Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers))

eyes irritation (HSDB, Access on August 2014)

(1,3,5-Trimethyl benzene)

rabbit : mild (NITE primary risk assessment, 2008)

(Cumene)

rabbit recover within 5 days (ACGIH, 2001)

(Xylene (Mixture of isomers))

rabbit : mild to moderate irritation (Hazard Assessment Report (CERI, NITE), 2008)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

[GHS Cat. Japan, base data]

(Cumene)

cat.2; IARC Gr. 2B (IARC 101, 2011)

IARC-Gr.2B : Possibly carcinogenic to humans

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

EPA-CBD; "Cannot Be Determined" to be carcinogenic(1996)

JSOH-2B: Insufficient Evidence of Carcinogenicity for Humans

(Xylene (Mixture of isomers))

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

ACGIH-A4(1996) : Not Classifiable as a Human Carcinogen

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EPA-I; "Inadequate Information to Assess Carcinogenic Potential" (2005)
(1,3,5-Trimethyl benzene)

EPA-I; "Inadequate Information to Assess Carcinogenic Potential" (2005)
(Naphtha)

EU-Category 1B; Substances presumed to have carcinogenic potential for humans

Reproductive toxicity

[GHS Cat. Japan, base data]

(Xylene (Mixture of isomers)) cat. 1B; ATSDR, 2007

Teratogenic effects data is not available.

STOT

STOT-single exposure

[cat.1]

[GHS Cat. Japan, base data]

(Cumene)

central nervous system; liver; kidney (EU-RAR, 2001)

(Xylene (Mixture of isomers))

central nervous system; respiratory system; liver; kidney (NITE risk assessment, 2008)

[cat.3 (resp. irrit.)]

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers)) respiratory tract irritation (HSDB, Access on August 2014)

(1,3,5-Trimethyl benzene) respiratory tract irritation (NITE primary risk assessment, 2008)

(Cumene) respiratory tract irritation (DFGMAK-Doc.13, 1999)

[cat.3 (drow./dizz.)]

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers)) narcotic effect (ACGIH 7th, 2001)

(1,3,5-Trimethyl benzene) narcotic effect (NITE primary risk assessment, 2008)

(Cumene) narcotic effect (EU-RAR, 2001)

(Xylene (Mixture of isomers)) narcotic effect (NITE risk assessment, 2008)

STOT-repeated exposure

[cat.1]

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers))

central nervous system; respiratory system (MOE risk assessment vol.11, 2013)

(1,3,5-Trimethyl benzene)

central nervous system; respiratory system (ACGIH 7th, 2001; MOE risk assessment vol.11, 2013)

(Xylene (Mixture of isomers))

nervous system; respiratory system (NITE risk assessment, 2008)

Aspiration hazard

[cat.1]

[GHS Cat. Japan, base data]

(Trimethyl benzene (mixed isomers))

cat. 1; hydrocarbon, kinematic viscosity < 8.9 mm²/s (1,3,5-trimethylbenzene)

(1,3,5-Trimethyl benzene)

cat. 1; hydrocarbon, kinematic viscosity=8.9 mm²/s (20°C) (BUA 46, 1996)

(Cumene)

cat. 1; kinematic viscosity (40°C)=0.73 mm²/s (EU-RAR, 2001)

(Xylene (Mixture of isomers))

cat. 1; kinematic viscosity=0.86(o-), 0.67(m-), 0.70(p-) mm²/s (25°C) (HSDB, Access on December 2014)

Information on other hazards

Data on the preparation itself is not available.

12. Ecological Information

Ecotoxicity

Aquatic toxicity

H401-Toxic to aquatic life

H411-Toxic to aquatic life with long lasting effects

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]

(1,3,5-Trimethyl benzene)

Crustacea (Daphnia magna) LC50=6mg/L/48hr (MOE Risk Assessment vol. 2, 2002 and others.)

(Xylene (Mixture of isomers))

Fish (rainbow trout) LC50=3.3mg/L/96hr (NITE primary risk assessment, 2005)

(Trimethyl benzene (mixed isomers))

Crustacea (grass shrimp) LC50=5.4mg/L/96hr (Aquire, 2003)

(Cumene)

Crustacea (Mysidopsis bahia) LC50=1.2mg/L/96hr (CICAD18, 1999)

Water solubility

(1,3,5-Trimethyl benzene) very poor (ICSC, 2002)

(Trimethyl benzene (mixed isomers)) very poor (ICSC, 2002)

(Cumene) very poor (0.02 g/100ml, 20°C) (ICSC, 2014)

Persistence and degradability

(1,3,5-Trimethyl benzene)

BOD_Degradation : 0% (Registered chemicals data check & review)

(Xylene (Mixture of isomers))

Not degrade rapidly (BOD_Degradation : 39% (NITE primary risk assessment, 2005))

(Trimethyl benzene (mixed isomers))

1,3,5-trimethylbenzene BOD_Degradation : 0% (Registered chemicals data check & review)

(Cumene)

Not degrade rapidly (Degradation : 13% (84/449/EEC))

Bioaccumulative potential

(1,3,5-Trimethyl benzene)

log Pow=3.42 (ICSC, 2002); BCF=342 (Registered chemicals data check & review, Japan)

(Xylene (Mixture of isomers))

log Pow=3.16 (PHYSPROP DB, 2005)

(Trimethyl benzene (mixed isomers))

log Pow=3.4 through 3.8 (ICSC, 2002) ;

BCF=328(1,3,5-trimethylbenzene :Registered chemicals data check & review, Japan)

(Cumene)

log Pow=3.66 (PHYSPROP DB, 2005)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

Additional data

Data on the preparation itself is not available.

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

Avoid release to the environment.

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

14. Transport Information**UN No., UN CLASS**

UN No. or ID No.: 1268

UN Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, 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 No.: 1268

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S.

Class or division : 3

Packing group : III

IATA Dangerous Goods Regulations

UN No.: 1268

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S.

Class or division : 3

Hazard labels : Flamm.liquid

Packing group : III

Environmental hazards**MARPOL Annex III – Prevention of pollution by harmful substances**

Marine pollutants (yes/no) : yes

MARPOL Annex V – Prevention of pollution by garbage discharge

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

Xylene (Mixture of isomers)

Specific target organ toxicity – repeated exposure: cat.1

Trimethyl benzene (mixed isomers); 1,3,5-Trimethyl benzene

Hazardous to the aquatic environment – long-term hazard: cat.1, 2

Trimethyl benzene (mixed isomers); 1,3,5-Trimethyl benzene; Cumene; Xylene (Mixture of isomers)

Maritime transport in bulk according to IMO instruments

Noxious Liquid ; Cat. X

1,3,5-Trimethyl benzene(X-51); Trimethyl benzene (mixed isomers)(X-51)

Noxious Liquid ; Cat. Y

Xylene (Mixture of isomers)(Y-130); Naphtha(Y-156); Cumene(Y-389)

Flammable Liquid

Xylene (Mixture of isomers)(DANGEROUS-7); Cumene(DANGEROUS-8); Naphtha(DANGEROUS-16)

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture****Chemicals listed in TSCA Inventory**

1,3,5-Trimethyl benzene; Cumene; Xylene (Mixture of isomers); Naphtha;

Trimethyl benzene (mixed isomers)

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.

16. Other information

GHS classification and labelling

H226–Flam. Liq. 3: H226 Flammable liquid and vapor
H315–Skin Irrit. 2: H315 Causes skin irritation
H320–Eye Irrit. 2B: H320 Causes eye irritation
H351–Carc. 2: H351 Suspected of causing cancer
H360–Repr. 1B: H360 May damage fertility or the unborn child
H371–STOT SE 2: H371 May cause damage to organs
H335–STOT SE 3: H335 May cause respiratory irritation
H336–STOT SE 3: H336 May cause drowsiness or dizziness
H372–STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure
H373–STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure
H304–Asp. Tox. 1: H304 May be fatal if swallowed and enters airways
H401–Aquatic Acute 2: H401 Toxic to aquatic life
H411–Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN
IMDG Code, 2018 Edition (Incorporating Amendment 39–18)
IATA Dangerous Goods Regulations (62nd Edition) 2021
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2021 TLVs and BEIs. (ACGIH)
JIS Z 7252 : 2019
JIS Z 7253 : 2019
2020 Recommendation on TLVs (JSOH)
Supplier's data/information
Chemicals safety data management system "GHS Assistant" Version 4.11 (<https://www.asahi-ghs.com/>)
NITE Chemical Risk Information Platform "NITE-CHRIIP"
(https://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)
GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI)

Definitions and Abbreviations

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)
JSOH (Japan Society for Occupational Health)
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

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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 Japan official data (NITE published in 2019).