



Safety Data Sheet

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

Product identifier:

Product name: Solvent naphtha

SDS No. : 7321E-2

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

Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

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 2

HEALTH HAZARDS

Acute toxicity (Inhalation): Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

Carcinogenicity: Category 1B

Reproductive toxicity: Category 1A

Reproductive toxicity – effects on or via lactation: Additional category

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

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

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

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

Specific target organ toxicity – repeated exposure: Category 2 (central nervous system, respiratory system, kidneys)

Aspiration hazard: Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 1

Hazardous to the aquatic environment, long-term (chronic): Category 2

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

Label elements



Signal word: Danger

HAZARD STATEMENT

Highly flammable liquid and vapor

Harmful if inhaled

Causes skin irritation



Causes serious eye irritation
May cause cancer
May damage fertility or the unborn child
May cause harm to breast-fed children
Causes damage to organs (liver, central nervous system, respiratory system, kidneys)
May cause damage to organs (central nervous system)
May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure (auditory organ, nervous system, respiratory system)
May cause damage to organs through prolonged or repeated exposure (central nervous system, respiratory system, kidneys)
May be fatal if swallowed and enters airways
Very toxic to aquatic life
Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

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

Response

In case of fire: Use appropriate media to extinguish.
Collect spillage.
Get medical advice/attention if you feel unwell.
IF exposed or concerned: Get medical advice/attention.
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: Immediately call a POISON CENTER/doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

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

Disposal

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

Specific Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.



Section 3. Composition/information on ingredients**Mixture/Substance selection:****Mixture****Ingredient name:**o-,m-,p-Xylene**Content (%)**:42**Chemical formula**:C₂₄H₃₀**Chemicals No, Japan**:3-3; 3-60**CAS No.**:1330-20-7**MW**:106.16**ECNO**:215-535-7**Ingredient name**:Ethylbenzene**Content (%)**:42**Chemical formula**:C₆H₅C₂H₅**Chemicals No, Japan**:3-28;3-60**CAS No.**:100-41-4**MW**:106.17**ECNO**:202-849-4**Ingredient name**:Toluene**Content (%)**:8.0**Chemical formula**:C₆H₅CH₃**Chemicals No, Japan**:3-2**CAS No.**:108-88-3**MW**:92.14**ECNO**:203-625-9**Ingredient name**:Naphtha (petroleum), light arom.**Content (%)**:5.0-10**Chemicals No, Japan**:9-1691; 9-1698; 9-1700; 9-2578**CAS No.**:64742-95-6**ECNO**:265-199-0**Note** : The figures shown above are not the specifications of the product.**Supplementary information concerning ingredients****Components contained in Naphtha (petroleum), light arom.**

1,2,4-Trimethylbenzene 2.6% (CAS No.95-63-6)

1,3,5-Trimethylbenzene 0.60% (CAS No.108-67-8)

Cumene 0.14% (CAS No.98-82-8)

Section 4. First-aid measures**Descriptions of first-aid measures****General measures**

Get medical advice/attention if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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 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.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Indoor firefighting equipment or outdoor firefighting equipment

Sprinkler equipment

Dry-powder firefighting equipment – other (except for phosphate etc.,hydrogen carbonate etc.)

Straight stream water extinguisher

Water mist extinguisher

Reinforcing liquid jet extinguisher

Dry-powder extinguisher – other (except for phosphate etc.,hydrogen carbonate etc.)

Bucket of water or tank of water

Specific hazards arising from the substance or mixture

Containers may explode when heated.

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

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe 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.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

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.

Preventive measures for secondary accident

Collect spillage.

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

Use only outdoors or in a well-ventilated area.

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

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

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

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Container and packaging materials for safe handling

Glass

Stainless steel

Section 8. Exposure controls/personal protection

Control parameters

Adopted value

(o-,m-,p-Xylene)

ACGIH(2021) TWA: 20ppm (Eye & URT irr; hematologic eff; ototoxicity; CNS impair)

(Ethylbenzene)

ACGIH(2021) TWA: 20ppm

(URT & eye irr; ototoxicity; kidney eff; CNS impair)

(Toluene)

ACGIH(2020) TWA: 20ppm (CNS, visual, & hearing impair; female repro system eff; pregnancy loss)

(1,2,4-Trimethylbenzene)

ACGIH(2021) TWA: 10ppm (CNS impair; hematologic eff)

(1,3,5-Trimethylbenzene)

ACGIH(2021) TWA: 10ppm (CNS impair; hematologic eff)

(Cumene)

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

Notation

(o-,m-,p-Xylene)

OTO

(Ethylbenzene)

OTO

(Toluene)

OTO

**OSHA-PEL**

(Cumene)

TWA: 50ppm, 245mg/m³

(Ethylbenzene)

TWA: 100ppm, 435mg/m³

(Toluene)

TWA: 200ppm; STEL: C 300ppm

Acceptable maximum peak: 500ppm; Maximum Duration: 10min

(o-,m-,p-Xylene)

TWA: 100ppm, 435mg/m³**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.

Eye protection

Wear eye/face protection.

Section 9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state: Liquid

Color: Colorless, Clear

Odor: Characteristic odor

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

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: 4-46°C

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Insoluble

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

Vapor pressure data is not available.

Density and/or relative density: 0.85-0.88(15/4°C)

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

Particle characteristics data is not available.

Section 10. Stability and Reactivity**Reactivity**

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

(o-,m-,p-Xylene)

As a result of flow, agitation, etc., electrostatic charges can be generated.

Reacts with strong acids and strong oxidants. (ICSC 0084,0085,0086)

(Ethylbenzene)

The vapour mixes well with air, explosive mixtures are easily formed.

Reacts with strong oxidants. Attacks plastics and rubber. (ICSC 0268)

(Toluene)

The vapour mixes well with air, explosive mixtures are easily formed. As a result of flow, agitation, etc., electrostatic charges can be generated.

Reacts violently with strong oxidants. This generates fire and explosion hazard. (ICSC 0078)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong acids, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

rat LD50=3500 – 8800mg/kg (NITE risk assessment, 2008)

(Ethylbenzene)

rat LD50=3500–4700mg/kg (AICIS IMAP, 2020)

(1,2,4-Trimethylbenzene)

female rat LD50=3280mg/kg (REACH Registration dossier, Accessed Aug. 2021)

(1,3,5-Trimethylbenzene)

rat LD50=4300–8642mg/kg (NITE Initial Risk Assessment Report, 2008)

(Cumene)

rat LD50=2700mg/kg (ACGIH, 2001)

Acute toxicity (Dermal)

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

rabbit LD50=1700mg/kg (EPA Pesticide, 2005)

(Ethylbenzene)

rabbit LD50=15400mg/kg (ACGIH, 2011)

(Cumene)

rabbit LD50 >3160mg/kg (AICIS IMAP, 2016)

Acute toxicity (Inhalation)

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

vapor: rat LC50=6350–6700ppm/4hr (NITE Initial Risk Assessment Report, 2008)

(Ethylbenzene)

vapor: rat LC50=4000ppm/4hr (OEL Documentations (JSOH), 2020)

mist: rat LC50=55mg/L/2hr (cal.: 27.5mg/L/4hr) (MOE Result of the initial environmental risk assessment of chemicals, 2015)

(Toluene)

vapor: rat LC50=3319-8800ppm/4hr (EU-RAR, 2003) et al.
(1,2,4-Trimethylbenzene)
mist: rat LC50=18000mg/m3/4hr (18mg/L/4hr) (MOE Result of the initial environmental risk assessment of chemicals, 2009)
(1,3,5-Trimethylbenzene)
mist: rat LC50=4800ppm/4hr (24mg/L/4hr) (MOE Result of the initial environmental risk assessment of chemicals, 2013)
(Cumene)
vapor: mouse LC50=2000ppm/7hr (cal.: 2645ppm/4hr) (OEL Documentations (JSOH), 2019)
mist: rat LC50=39.3mg/L/4hr (OEL Documentations (JSOH), 2019)

Irritant properties

Skin corrosion/irritation

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

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

(Toluene)

rabbit moderate irritation (EU-RAR, 2003)

(1,2,4-Trimethylbenzene)

skin irritation (MOE Result of the initial environmental risk assessment of chemicals, 2009)

(1,3,5-Trimethylbenzene)

rabbit (OECD TG 404) moderate to severe irritation (NITE Initial Risk Assessment Report, 2008)

Serious eye damage/irritation

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

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

(Ethylbenzene)

rabbit mild irritation (NITE Initial Risk Assessment Report, 2007 et al)

(Toluene)

rabbit slight eyes irritation (EU-RAR, 2003)

(1,2,4-Trimethylbenzene)

eye irritation (MOE Result of the initial environmental risk assessment of chemicals, 2009)

(1,3,5-Trimethylbenzene)

rabbit mild irritation (NITE Initial Risk Assessment Report, 2008)

(Cumene)

mild irritation (MHLW risk assessment Report, 2015)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenicity

[Data for components of the product]

[GHS Cat. Japan, base data]

(Ethylbenzene)

cat.2; IARC Gr. 2B (IARC, 2000 et al.)

(Cumene)

cat.1B; (CLH Report, 2019 et al.)

[IARC]

(o-,m-,p-Xylene)

Group 3 : Not classifiable as to its carcinogenicity to humans

(Ethylbenzene)

Group 2B : Possibly carcinogenic to humans

(Toluene)

Group 3 : Not classifiable as to its carcinogenicity to humans

(Cumene)

Group 2B : Possibly carcinogenic to humans

[ACGIH]

(o-,m-,p-Xylene)

A4(2021) : Not Classifiable as a Human Carcinogen

(Ethylbenzene)

A3(2021) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Toluene)

A4(2020) : Not Classifiable as a Human Carcinogen

(1,2,4-Trimethylbenzene)

A4(2021) : Not Classifiable as a Human Carcinogen

(Cumene)

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

[EU]

(Naphtha (petroleum), light arom.)

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

Reproductive toxicity

[Data for components of the product]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

cat. 1B; ATSDR, 2007

(Ethylbenzene)

cat. 1B; Recommendation of Occupational Exposure Limits (JSOH), 2021; 2021; ACGIH 7th, 2011 et al.

(Toluene)

cat. 1A; NITE Initial Risk Assessment Report 87, 2006

(Toluene)

cat. add; SIDS(J), Access on Apr. 2012

Specific target organ toxicity (STOT)

STOT-single exposure

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

liver, central nervous system, respiratory system, kidneys (CERI/NITE Hazard Assessment Report, 2008)

(Toluene)

central nervous system (IARC 47, 1989; IRIS tox. Review, 2005)

[cat.3 (respiratory tract irritation)]

[GHS Cat. Japan, base data]

(Ethylbenzene)

respiratory tract irritation (ACGIH, 2011; AICIS IMAP, 2020)

(Toluene)

respiratory tract irritation (PATY 5th, 2001)

(1,2,4-Trimethylbenzene)

respiratory tract irritation (ACGIH, 2001)

(1,3,5-Trimethylbenzene)

respiratory tract irritation (MOE Result of the initial environmental risk assessment of chemicals, 2013)

(Cumene)

respiratory tract irritation (MHLW Risk Assessment Report, 2015)

[cat.3 (narcotic effects)]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

narcotic effect (CERI/NITE Hazard Assessment Report, 2008)

(Ethylbenzene)

narcotic effect (ACGIH, 2011)

(Toluene)

narcotic effect (EHC 52, 1985; IARC 47, 1989)

(1,2,4-Trimethylbenzene)

narcotic effect (US AEGL, 2012 et al.)

(1,3,5-Trimethylbenzene)

narcotic effect (MOE Result of the initial environmental risk assessment of chemicals, 2013)

(Cumene)

narcotic effect (MHLW Risk Assessment Report, 2015)

STOT-repeated exposure

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

nervous system, respiratory system (CERI/NITE Hazard Assessment Report, 2008)

(Ethylbenzene)

auditory organ, nervous system (JSOH OEL Documentations, 2020)

(Toluene)

central nervous system, kidneys (Occupational medicine vol.36, 1994)

(1,2,4-Trimethylbenzene)

central nervous system, respiratory system (MOE Result of the initial environmental risk assessment of chemicals, 2009; EPA Tox Review, 2016)

Aspiration hazard

[Data for components of the product]

[cat.1]

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

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

(Ethylbenzene)

cat. 1; hydrocarbon, kinematic viscosity=0.63 mm²/s (40°C) (CLH Report, 2010)

(Toluene)

cat. 1; hydrocarbon, kinematic viscosity =0.86 mm²/s (40°C)

(1,2,4-Trimethylbenzene)

cat. 1; hydrocarbon, kinematic viscosity=0.843 mm²/s (20°C), 0.630 mm²/s (50°C) (Isomer of this substance; 1,3,5-Trimethylbenzene) (GESTIS, 2021)

(1,3,5-Trimethylbenzene)

cat. 1; hydrocarbon, kinematic viscosity=0.843 mm²/s (20°C), 0.630 mm²/s (50°C) (REACH Registration dossier, Accessed July 2021)

(Cumene)

cat. 1; hydrocarbon, kinematic viscosity=0.73 x 10⁻⁶ mm²/s (40°C) (EU RAR, 2001)

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Data for components of the product]

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

[GHS Cat. Japan, base data]

(o-,m-,p-Xylene)

Fish (rainbow trout) LC50=3.3mg/L/96hr (NITE Initial Risk Assessment, 2005)

(Ethylbenzene)

Crustacea (bayshrimp) LC50=0.42mg/L/96hr (NITE Initial Risk Assessment Report, 2007)

(Toluene)

Crustacea (Ceriodaphnia dubia) EC50=3.78mg/L/48hr (NITE Initial Risk Assessment Report, 2006)

(1,2,4-Trimethylbenzene)

Fish (Pimephales promelas) LC50=7.72mg/L/96hr (Risk assessment of priority assessment chemical substances, 2015)

(1,3,5-Trimethylbenzene)

Crustacea (Daphnia magna) EC50=6mg/L/48hr; Fish (Carassius auratus) LC50=12.5mg/L/96hr (NITE Initial Risk Assessment Report, 2008)

(Cumene)

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

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

[GHS Cat. Japan, base data]

(Ethylbenzene)

Crustacea (Ceriodaphnia reticulata) NOEC=0.956mg/L/7days (MOE Japan, 2015)

(Toluene)

Crustacea (Ceriodaphnia dubia) NOEC=0.74mg/L/7days (NITE Initial Risk Assessment Report, 2006)

(1,3,5-Trimethylbenzene)

Crustacea (Daphnia magna) NOEC=0.4mg/L/21days (SIAP, 2012)

Water solubility

(Ethylbenzene)

0.015 g/100 ml (20°C) (ICSC, 2007)

(Toluene)

none (ICSC, 2002)

(1,2,4-Trimethylbenzene)

very poor (ICSC, 2002)

(1,3,5-Trimethylbenzene)

very poor (ICSC, 2002)

(Cumene)

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

Persistence and degradability

[Data for components of the product]

(o-,m-,p-Xylene)

Not rapidly degradable (BOD_Degradation : 39% (NITE Initial Risk Assessment Report, 2005))

(Ethylbenzene)

Not rapidly degradable (BOD_Degradation : 0% (MITI official bulletin, 1990))

(Toluene)

BOD_Degradation : 123% (METI existing chemical safety inspections)

(1,2,4-Trimethylbenzene)

Not rapidly degradable (BOD_Degradation : average 8.7%/28 days (METI Existing Chemical Substances Safety Inspections Data, 1980))

(1,3,5-Trimethylbenzene)

Not rapidly degradable (BOD_Degradation : 0%/14 days (METI Existing Chemical Substances Safety Inspections Data, 1980))

(Cumene)

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

Bioaccumulative potential

[Data for components of the product]

(o-,m-,p-Xylene)

log Pow=3.16 (PHYSPROP DB, 2005)



(Ethylbenzene)

log Kow=3.15 (PHYSPROP DB, 2005)

(Toluene)

log Kow=2.73 (PHYSPROP DB, 2008)

(1,2,4-Trimethylbenzene)

log Pow=3.8 (ICSC, 2002)

(1,3,5-Trimethylbenzene)

log Pow=3.42 (ICSC, 2002); BCF=342 (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.

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

Avoid release to the environment.

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

Section 14. Transport Information

UN Number or ID Number : 1993

UN Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Packing group : II

ERG GUIDE No.: 128

Special provisions No.: 274

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 : II

Special provisions No.: 274

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 : II

Special provisions No.: A3

Environmental hazards

Marine pollutants (yes/no) : yes

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

Noxious Liquid Substances ; Cat. X

1,3,5-Trimethylbenzene; 1,2,4-Trimethylbenzene

Noxious Liquid Substances ; Cat. Y

Ethylbenzene; o-,m-,p-Xylene; Toluene



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

1,2,4-Trimethylbenzene; Cumene; Ethylbenzene; 1,3,5-Trimethylbenzene; Toluene;
o-,m-,p-Xylene; Naphtha (petroleum), light arom.

Other regulatory information

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

Section 16. Other information

GHS classification and labelling

Flammable liquids, Category 2: H225 Highly flammable liquid and vapour

Acute toxicity, Category 4: H332 Harmful if inhaled

Skin corrosion/irritation, Category 2: H315 Causes skin irritation

Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation

Carcinogenicity, Category 1B: H350 May cause cancer

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

Reproductive toxicity – effects on or via lactation, Additional category : H362 May cause harm to breast-fed children

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

STOT – single exposure, Category 2: H371 May cause damage to organs

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

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

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

Aspiration hazard, Category 1: H304 May be fatal if swallowed and enters airways

Hazardous to the aquatic environment, short-term (acute), Category 1: H400 Very toxic to aquatic life

Hazardous to the aquatic environment, long-term (chronic), Category 2: H411 Toxic to aquatic life with long lasting effects

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

Supplier's data/information

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 Japan official data (NITE published in 2021).