



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 3.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Naphtha, Solvent
Product Code	149-00027,141-00026
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fow +81-6-6203-2020
Emergency telephone number Recommended uses Restrictions on use	Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture	
Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 1, Category 3
Category 1 respiratory system, liver, central nervous system, kidneys	
Category 3 Narcotic effects, Respiratory irritation	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 respiratory system, nervous system, kidneys, liver	
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Pictograms



Signal word

Danger

Hazard statements

- H226 Flammable liquid and vapour
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H304 May be fatal if swallowed and enters airways
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: respiratory system, liver, central nervous system, kidneys

H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system, nervous system, kidneys, liver

Precautionary statements-(Prevention)

Obtain special instructions before use

- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closedGround/bond container and receiving equipment
- Use explosion-proof electrical/ventilating / lighting / equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

Precautionary statements-(Response)

• IF exposed: Call a POISON CENTER or doctor/physician

• 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 skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting
- In case of fire: Use suitable extinguishing media for extinction
- Collect spillage

Precautionary statements-(Storage)

- Store locked up
 Store in a well-ventilated place. Keep container tightly closed
- Precautionary statements-(Disposal)
 - Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Naphtha	-	N/A	3-2,3-3	公表	8030-30-6
Xylene	20-50	106.17	(3)-3,(3)-60	*	1330-20-7
Ethylbenzene	<50	106.17	(3)-28,(3)-60	*	100-41-4
Toluene	5-12	92.14	(3)-2,(3)-60	*	108-88-3
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Note on ISHL No.:

* in the table means announced chemical substances.

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixture with air

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

<u>Storage</u> Safe storage conditions Storage conditions

Safe packaging material Incompatible substances

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass, Iron Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Xylene	TWA: 50 ppm OEL	ISHL/ACL: 50 ppm	TWA: 20 ppm
1330-20-7	TWA: 217 mg/m ³ OEL		
	ISHL/ACL: 50 ppm		
Ethylbenzene	TWA: 87 mg/m ³ OEL	ISHL/ACL: 20 ppm	TWA: 20 ppm
100-41-4	TWA: 20 ppm OEL		
	Skin		
	ISHL/ACL: 20 ppm		
Toluene	TWA: 50 ppm OEL	ISHL/ACL: 20 ppm	TWA: 20 ppm
108-88-3	TWA: 188 mg/m ³ OEL		
	Skin		
	ISHL/ACL: 20 ppm		

Personal protective equipment

Respiratory protection Hand protection Eye protection gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Turbidity Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) Dynamic viscosity

colorless clear liquid characteristic odor no data available 135 - 165 °C Flammable liquid and vapor no data available no data available

6.0% 1.0% 26 °C 232.2 °C no data available no data available no data available no data available Solubilities

n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics Ethanol , acetone and Diethyl ether : soluble . water : practically insoluble,or insoluble . no data available no data available 0.865 - 0.868 g/ml 4.3(air=1) no data available

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Since data of the mixture is not available, data as each components are described.

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Xylene	3500 - 8800 mg/kg (Rat)	1700 mg/kg(Rabbit)	6350 - 6700 ppm (Rat) 4 h
Ethylbenzene	3500 - 4700 mg/kg (Rat)	15400 mg/kg(Rabbit)	4000 ppm (Rat) 4 h
Toluene	5000 mg/kg (Rat)	12000 mg/kg (Rat)	7460 ppm (Rat) 4 h (vapor)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Xylene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Ethylbenzene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
-	classification results.	classification results.	classification results.
			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Xylene			Based on the NITE GHS classification results.
Ethylbenzene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS classification results.
Toluene			Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Xylene	Based on the NITE GHS classification results.
Ethylbenzene	Based on the NITE GHS classification results.
Toluene	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Xylene	Based on the NITE GHS classification results.

Ethylbenzene		Based on the NITE GHS classification results.		
Toluene		Based on the NITE GHS classification results.		
Respiratory or skin sensitization				
Chemical Name		Respiratory or Sk	in sensitization	source information
Xylene		Based on the NITE GH	S classification re	sults.
Ethylbenzene		Based on the NITE GH	S classification re	sults.
Toluene		Based on the NITE GH	S classification re	sults.
Reproductive cell mutagenicity		-		
Chemical Name		germ cell mu	utagencity sourc	e information
Xylene		Based on the NITE GH	S classification re	sults.
Ethylbenzene		Based on the NITE GH	S classification re	sults.
Toluene		Based on the NITE GH	S classification re	sults.
Carcinogenicity		-		
Chemical Name		Carcinogenicity source information		
Xylene		Based on the NITE GHS classification results.		
Ethylbenzene		Based on the NITE GH	S classification re	sults.
Toluene		Based on the NITE GH	S classification re	sults.
		L		
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Xylene	-	Group 3	-	-
1330-20-7				
Ethylbenzene	-	Group 2B	A3	Group 2B
100-41-4				
Toluene	-	Group 3	-	-
108-88-3				
Reproductive toxicity				
Chemical Name		Reproductiv	e toxicity source	e information
Xylene		Based on the NITE GH	S classification re	sults.
Ethylbenzene		Based on the NITE GHS classification results.		
Toluene		Based on the NITE GHS classification results.		

Toluene	Dased on the NTE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Xylene	Based on the NITE GHS classification results.	
Ethylbenzene	Based on the NITE GHS classification results.	
Toluene	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
Xylene	Based on the NITE GHS classification results.	
Ethylbenzene	Based on the NITE GHS classification results.	
Toluene	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
Xylene	Based on the NITE GHS classification results.	
Ethylbenzene	Based on the NITE GHS classification results.	
Toluene	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Since data of the mixture is not available, data as each components are described.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Xylene	N/A	LC50 : Oncorhynchus mykiss	N/A
		3.3 mg/L	
Ethylbenzene	N/A	LC50 : Morone saxatilis	LC50 : Crangon crangon
_		3.7 mg/L 96 h	0.42 mg/L 96 h

Toluene	EC50:Pseudokirchneriella	LC50:Pimephales promelas	EC50:Ceriodaphnia dubia
	subcapitata	15.22 - 19.05 mg/L 96 h	3.78 mg/L 48 h
	433 mg/L 96 h	15.22 - 19.05 mg/L 90 m	5.70 IIIg/L 40 II

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
		Based on the NITE GHS classification
	results.	results.
Ethylbenzene	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.
Toluene	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID	
UN number	UN1268
Proper shipping name:	Petroleum distillates, n.o.s. (Naphtha)
UN classfication	3
Subsidiary hazard class	
Packing group	III
Marine pollutant	Yes
IMDG	
UN number	UN1268
Proper shipping name:	Petroleum distillates, n.o.s. (Naphtha)
UN classfication	3
Subsidiary hazard class	5
Packing group	111
Marine pollutant (Sea)	Yes
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	
UN number	UN1268
Proper shipping name:	Petroleum products, n.o.s. (Naphtha)
UN classfication	3
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class II petrole Not applicable	ums, dangerous grade 3	
Industrial Safety and Health Act			the Label (Law Art.57)
	Prevention of Organic Solver	nforcement Order Attached Ta nt Poisoning Art.1, Para.1, Iten	า 5)
	Dangerous Substances - Fla Item 4)	mmable Substance (Enforcem	ent Order Attached Table 1
	Group 2 Specified Chemical	Substance	
	Working Environment Evalua Para.1)	ation Standards, Administrative	Control Levels (Law Art.65-2,
	of Hazards Due to Specified	ces, Special Control Substance Chemical Substances Art.38-3	3)
Industrial Safety and Health Act (ards Prevention Guideline(Car	cinogenicity Substance) lations Article 594-2 Paragraph 1)
2024~)	2024.4.1~] Chemical Substar	ices Hazardous to Skin, etc.(Regu	lations Afficie 594-2 Paragraph 1)
Act on the Evaluation of	Priority Assessment Chemica	al Substances (Law Article 2, F	Para.5)
Chemical Substances and			
Regulation of Their			
Manufacture, etc			
Regulations for the carriage	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)		
and storage of dangerous goods in ship	Transport by Ship and Stora	ge, Allached Table T)	
Civil Aeronautics Law	Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of		
Givil Aeronautics Law	Explosives etc., Attached Ta		
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y		
Law	Dangerous Substances		
Pollutant Release and Transfer	Class 1		
Register Law			
(2023.4.1-)			
Class 1 - No.	53,80,300		
Water Pollution Control Act	Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)		
Export Trade Control Order Air Pollution Control Law	Not applicable		
Offensive Odor Control Law	Priority Chemical Substances Specified Offensive Odor Substances		
Industrial Safety and Health Law			
Law Name	Chemical Name in Regulation		
	Petroleum naphtha	<100%	
	•		

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Xylene 1330-20-7(20-50)	-	Applicable	Applicable
Ethylbenzene 100-41-4 (<50)	-	Applicable	Applicable
Toluene 108-88-3 (5-12)	-	Applicable	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html
sources for data etc.	IATA dangerous Goods Regulations
	RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS
	Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet