

General Solvent,Asahi Graphic Corp.,General\_Solvent\_JPN\_E-2,02/09/2019

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# Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: General Solvent Product code (SDS NO): General\_Solvent\_JPN\_E-2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the product: Industrial use Details of the supplier of the safety data sheet Manufacturer/Supplier: Asahi Graphic Corp. Address: 4-23-8 Ebisu, Shibuya-ku, Tokyo, 150-0013 Japan Telephone number: +81-3-5424-3016 FAX: +81-3-5424-3018 Emergency telephone number: +81-3-5424-3016

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 2 Carcinogenicity: Category 2 Reproductive toxicity: Category 1B Specific target organ toxicity - single exposure: Category 2 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 2 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

H319 Causes serious eye irritation

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H371 May cause damage to organs after single exposure

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

H304 May be fatal if swallowed and enters airways

H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280 Wear eye protection/face protection.

P280 Use personal protective equipment as required.

P270 Do not eat, drink or smoke when using this product.

Response

P370 + P378 In case of fire: Use appropriate media other than water for extinction.

P391 Collect spillage.

P321 Specific treatment is required.

P314 Get medical advice/attention if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P331 Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Storage

P403 Store in a well-ventilated place. P233 Keep container tightly closed. P235 Keep cool. P405 Store locked up.

Disposal

P501 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:

Mixture

Ingredient name	CAS No.	Content (%)	Chemicals No, Japan
Solvent naphtha	CBI	50 - 60	CBI
1,2,4-trimethylbenzene	95-63-6	10 - 20	3-7; 3-3427
1,3,5-trimethylbenzene	108-67-8	1 - 10	3-7; 3-3427
Xylene (Mixture of isomers)	1330-20-7	1 - 10	3-3; 3-60
Ethylbenzene	100-41-4	1 - 10	3-28; 3-60
Cumene	98-82-8	1 - 10	3-22

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

Components contributing to the hazard

Component(s) come under Labeling, etc. article of Industrial Safety and Health Act, Japan Solvent naphtha , 1,2,4-trimethylbenzene , 1,3,5-trimethylbenzene , Xylene (Mixture of isomers) , Ethylbenzene , Cumene

Component(s) come under Deliver of Documents, etc. article of Industrial Safety and Health Act, Japan Solvent naphtha , 1,2,4-trimethylbenzene , 1,3,5-trimethylbenzene , Xylene (Mixture of isomers) , Ethylbenzene , Cumene

Component(s) come under Harmful Substances article of PRTR Law, Japan

1,2,4-trimethylbenzene , 1,3,5-trimethylbenzene , Xylene (Mixture of isomers) , Ethylbenzene , Cumene

# 4. First-aid measures

Descriptions of first-aid measures

#### General measures

Get medical attention/advice if you feel unwell.

IF exposed or concerned: Get medical attention/advice.

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

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

## IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

#### IF ON SKIN (or hair)

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

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

# IF IN EYES

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

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed

Specific treatment is required.

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5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	
In case of fire, use water mist, foam, dry powder, CO2 to extinguish.	
Unsuitable extinguishing media	
Do not use direct water jet.	
Specific hazards arising from the substance or mixture	
Will form toxic carbon oxides upon combustion.	
Advice for firefighters	
Specific fire-fighting measures	
Evacuate non-essential personnel to safe area.	
Eliminate all ignition sources if safe to do so.	
Cool container with water spray.	
Apply water from a safe distance to cool and protect surrounding area.	
Prevent extinguishing water from entering sewers.	
Special protective equipment and precautions for fire-fighters	
Wear fire/flame resistant/retardant clothing.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Firefighters should wear self-contained breathing apparatus with full face peace operat	ed
positive pressure mode.	
6. Accidental release measures	
Personnel precautions, protective equipment and emergency procedures	
Evacuate area.	
Keep unauthorized personnel away.	
Wear an air-supplied respirator for handling a spill at a poor ventilated workplace.	
Wear proper protective equipment.	
Eliminate all sources of ignition and ventilate the area.	
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.	
Fill the disposal into labelled, closable containers.	
Preventive measures for secondary accident	
Collect spillage.	
Prepare extinguishers before catching fire.	
Stop leak if safe to do so.	
7. Handling and storage	
Precautions for safe handling	
Preventive measures	
(Exposure Control for handling personnel)	
Do not breathe gas/mist/vapors/spray.	
Avoid breathing gas/mist/vapors/spray.	
(Protective measures against fire and explosion)	
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting equipment.	

Use only non-sparking tools.

**GHS** Assistant

Take precautionary measures against static discharge.

(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. Wear protective gloves. Wear eye protection/face protection. Use personal protective equipment as required. 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.

Store locked up.

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

8. Exposure controls/personal protection

# **Control parameters**

GHS Assistant

Control value (Ethylbenzene) Japan control value (2012) <= 20ppm (Xylene (Mixture of isomers)) Japan control value (2004) <= 50ppm Adopted value (Ethylbenzene) JSOH(2001) 50ppm; 217mg/m3 (1,3,5-trimethylbenzene) JSOH(1984) 25ppm; 120mg/m3 (Xylene (Mixture of isomers)) JSOH(2001) 50ppm; 217mg/m3 (1,2,4-trimethylbenzene) JSOH(1984) 25ppm; 120mg/m3 (Ethylbenzene) ACGIH(2010) TWA: 20ppm (URT irr; kidney dam; nephropathy; cochlear impair) (Xylene (Mixture of isomers)) ACGIH(1992) TWA: 100ppm STEL: 150ppm (URT & eye irr; CNS impair) (Cumene) ACGIH(1997) TWA: (50ppm) (Eye, skin & URT irr; CNS impair)

OSHA-PEL	
(Cumene)	
TWA: 50ppm, 245mg/m3	
(Ethylbenzene)	
TWA: 100ppm, 435mg/m3	
(Xylene (Mixture of isomers))	
TWA: 100ppm, 435mg/m3	
NIOSH-REL	
(Cumene)	
TWA: 50ppm	
(Ethylhenzene)	
$TWA \cdot 100$ npm: STEL :125 npm	
(Xylene (Mixture of isomers))	
TWA: 100ppm: STEL: 150ppm	
California proposition 65	
INSRL-(Innalation) 54 $\mu$ g/ day ; (oral) 41 $\mu$ g/ day	
Exposure controls	
Exhaust/ventilator should be available.	
Eye wash station should be available.	
Washing facilities should be available.	
Individual protection measures	
Respiratory protection	
Wear respiratory protection.	
Hand protection	
Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubbe	r
Eye protection	
Wear safety glasses with side-shields or chemical safety goggle.	
Skin and body protection	
Wear protective clothing.	
Wear impervious clothing and boots in case of repeated or prolonged treatment.	
Physical and Chemical Properties	
Information on basic physical and chemical properties	
Physical state: Liquid	
Color: Colorless	
Odor: Petroleum odor	
Odor threshold data is not available.	
pH: Not applicable	
Boiling point or initial boiling point: 130°C	
Boiling range data is not available.	
Evaporation rate data is not available.	
Melting point/Freezing point data is not available.	
Decomposition temperature data is not available.	
Self-Accelerating Decomposition Temperature/SADT data is not available	
Flammability (gases, liquids and solids): Flam. Liq. 3, H226	

Flash point: (Closed cup)39°C

9.

Auto-ignition temperature: 432°C

Critical temperature data is not available.

Lower and upper explosion limit/flammability limit: Lower explosion limit: 0.6vol % Upper explosion limit: 7vol % Vapor pressure data is not available. Vapor density data is not available. VOC data is not available. Relative vapor density (Air=1): 4.1 Relative density of the Vapor/air - mixture at 20°C (Air = 1) data is not available. Density and/or relative density: 0.88(20°C) Dynamic viscosity: 20.1mPas(20°C) Kinematic viscosity: 17.5mm2/s(40°C) Solubility: Solubility in water: Insoluble Solubility in solvent data is not available. Solubility as solvent data is not available. n-Octanol/water partition coefficient data is not available. Particle characteristics: Not applicable 10. Stability and Reactivity Reactivity Reactivity data is not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions May form explosive gaseous mixture with air. Conditions to avoid Conditions to avoid data is not available. Incompatible materials 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] (Ethylbenzene) rat LD50=3500mg/kg (EHC 186, 1996) (Xylene (Mixture of isomers)) rat LD50=3500 - 8800mg/kg (NITE risk assessment, 2008) (1,2,4-trimethylbenzene) female rat LD50=5000mg/kg (RTECS, 2008) (Cumene) rat LD50=2700mg/kg (EU-RAR, 2001) 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] (Ethylbenzene) vapor: rat LC50=4000ppm/4hr (PATTY 6th, 2012) (Xylene (Mixture of isomers)) vapor: rat LC50=6350-6700ppm/4hr (NITE primary risk assessment, 2008) (Cumene) vapor: rat LC50=2000ppm/4hr (DFGMAK-Doc.13, 1999) Labor standard law, Japan; Toxic Xylene (Mixture of isomers) Irritant properties Skin corrosion/irritation [GHS Cat. Japan, base data] (1,3,5-trimethylbenzene) rabbit moderate to severe irritation (NITE primary risk assessment, 2008) (Xylene (Mixture of isomers)) rabbit erythema, edema, necrosis (NITE primary risk assessment, 2008) Serious eye damage/irritation [GHS Cat. Japan, base data] (Ethylbenzene) rabbit mild (EHC 186, 1996) (1,3,5-trimethylbenzene) rabbit mild (NITE primary risk assessment, 2008) (Xylene (Mixture of isomers)) rabbit mild tomoderate (NITE primary risk assessment, 2008) (Cumene) rabbit recover within 5 days (ACGIH, 2001) Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenicity [GHS Cat. Japan, base data] (Ethylbenzene) cat.2; IARC Gr. 2B (IARC, 2000 et al.) (Cumene) cat.2; IARC Gr. 2B (IARC 101, 2011) (Ethylbenzene) IARC-Gr.2B : Possibly carcinogenic to humans (Xylene (Mixture of isomers)) IARC-Gr.3 : Not Classifiable as a Human Carcinogen (Cumene) IARC-Gr.2B : Possibly carcinogenic to humans (Ethylbenzene) ACGIH-A3(2010) : Confirmed Animal Carcinogen with Unknown Relevance to Humans (Xylene (Mixture of isomers)) ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen (Ethylbenzene) JSOH-2B: Insufficient Evidence of Carcinogenicity for Humans (Cumene) JSOH-2B: Insufficient Evidence of Carcinogenicity for Humans (Solvent 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 (Ethylbenzene) cat. 1B; JSOH, 2014 Teratogenic effects data is not available. STOT STOT-single exposure [cat.1] [GHS Cat. Japan, base data] (Xylene (Mixture of isomers)) CNS; respiratory apparatus; liver; kidney (NITE risk assessment, 2008) (Cumene) CNS; liver; kidney (EU-RAR, 2001) [cat.3 (resp. irrit.)] [GHS Cat. Japan, base data] (1,2,4-trimethylbenzene) respiratory tract irritation (ACGIH 7th, 2001) (1,3,5-trimethylbenzene) respiratory tract irritation (NITE primary risk assessment, 2008) (Ethylbenzene) respiratory tract irritation (MOE risk assessment, 2015) (Cumene) respiratory tract irritation (DFGMAK-Doc.13, 1999) [cat.3 (drow./dizz.)] [GHS Cat. Japan, base data] (1,2,4-trimethylbenzene) narcosis (PATTY 5th, 2001) (1,3,5-trimethylbenzene) narcosis (NITE primary risk assessment, 2008) (Xylene (Mixture of isomers)) narcosis (NITE risk assessment, 2008) (Ethylbenzene) narcosis (ATSDR, 2010) (Cumene) narcosis (EU-RAR, 2001) STOT-repeated exposure [cat.1] [GHS Cat. Japan, base data] (1,3,5-trimethylbenzene) CNS; respiratory apparatus (ACGIH 7th, 2001; MOE risk assessment vol.11, 2013) (Xylene (Mixture of isomers)) nerve/nervous system; respiratory apparatus (NITE risk assessment, 2008) [cat.2] [GHS Cat. Japan, base data] (1,2,4-trimethylbenzene) CNS; lung (MOE risk assessment vol.6, 2008) (Ethylbenzene) hearing organ (ACGIH 7th, 2011)



Aspiration hazard	
[cat.1]	
[GHS Cat. Japan, base data]	
(1,2,4-trimethylbenzene)	
cat. 1; kinematic viscosity (20°C)=ca. 1.15 mm2/s	
(1,3,5-trimethylbenzene)	
cat. 1; hydrocarbon, kinematic viscosity=8.9 mm2/s (	(20°C) (BUA 46, 1996)
(Xylene (Mixture of isomers))	
cat. 1; kinematic viscosity=0.86(o-), 0.6/(m-), 0.70(p-	-) mm2/s (25°C) (HSDB, 2014)
(Ethylbenzene)	
cat. 1; hydrocarbon, kinematic viscosity=0.738 mm2/ (Cumene)	s (25 C)
cat. 1; kinematic viscosity (40°C)=0.73 mm2/s(EU-	RAR, 2001)
12. Ecological Information	
Ecotoxicity	
Aquatic toxicity	
Toxic to aquatic life	
I oxic to aquatic life with long lasting effects	
Aquatic acute toxicity component(s) data	
[GHS Gat. Japan, base data]	
(Ethylbenzene)	
Crustacea (bayshrimp) LCOU=0.42mg/L/90hr (NITE	primary risk assessment, 2007)
(1,3,3-trimetryibenzene)	- Janan 2002)
(Yulana (Mixtura of incompre))	- Japan, 2002)
Fish (rainbow trout)   C50=3 3mg/L/96hr (NITE prim	any risk assessment 2005)
(1 2 4-trimethylhenzene)	
(1,2,4 unitedigiberizene) Crustacea (Danhnia magna) EC50=6 14mg/l /48hr (II	
(Cumene)	50LID, 2000)
Crustacea (Mysidonsis bahia)   C50=1 2mg/l /96br ((	CICAD18 1999)
Aquatic chronic toxicity component(s) data	
[GHS Cat. Japan, base data]	
(Ethylbenzene)	
Crustacea (Ceriodaphnia reticulata) NOEC=0.956mg/	/L/7days (MOE Japan, 2015)
Water solubility	
(Ethylbenzene)	
0.015 g/100 ml (20°C) (ICSC, 2007)	
(1,3,5-trimethylbenzene)	
very poor (ICSC, 2002)	
(1,2,4-trimethylbenzene)	
very poor (ICSC, 2002)	
(Cumene)	
very poor (0.02 g/100ml , 20°C) (ICSC, 2014)	
Persistence and degradability	
(1,2,4-trimethylbenzene)	
BOD_Degradation : 4-18% (Registered chemicals da	ata check & review, 1977)
(Ethylbenzene)	
Not degrade rapidly (BOD_Degradation : 0% (MITI offi	cial bulletin, 1990))
(1,3,5-trimethylbenzene)	
BOD_Degradation : 0% (Registered chemicals data ch	ieck & review)

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(Xylene (Mixture of isomers)) Not degrade rapidly (BOD\_Degradation : 39% (NITE primary risk assessment, 2005)) (Cumene) Not degrade rapidly (Degradation : 13% (84/449/EEC)) Bioaccumulative potential (Ethylbenzene) log Kow=3.15 (PHYSPROP DB, 2005) (1,3,5-trimethylbenzene) log Pow=3.42 (ICSC, 2002); BCF=342 (Check & Review, Japan) (Xylene (Mixture of isomers)) log Pow=3.16 (PHYSPROP DB, 2005) (1,2,4-trimethylbenzene) log Pow=3.8 (ICSC, 2002) (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.

13. Disposal considerations Waste treatment methods

> Avoid release to the environment (- if this is not the intended use). Dispose of contents/container in accordance with local/national regulation. Dispose to an authorized waste collection point.

#### 14. Transport Information

UN No., UN CLASS UN No.: 1268 **Proper Shipping Name :** PETROLEUM DISTILLATES, N.O.S or PETROLEUM PRODUCTS, N.O.S. Class or division : 3 Packing group : III ERG GUIDE No.: 128 Special provisions No.: 223 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 Special provisions No.: 223; 955 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 Special provisions No.: A3



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
Xvlene (Mixture of isomers). Ethylbenzene
Hazardous to the aquatic environment $= \log$ -term hazard cat 1 2
124-trimethylbenzene 135-trimethylbenzene Xylene (Mixture of isomers)
Fthylbenzene Cumene
Transport in hulk according to Anney II of MARPOL 73/78 and IBC Code
Nexious Liquid : Cet Y
1.2 5-trimothylbonzono: 1.2.4-trimothylbonzono
Novious Liquid : Cot V
Noxious Elquid, Gat. 1 Ethylhenseney Xylene (Mixture of icemere)
Etnyibenzene; Xyiene (Mixture of isomers)
Rules and regulations on domestic transport
Ship Safety Act
Class 3 : Flammable liquids
Civil Aeronautics Act
Class 3 : Flammable liquids
15. Regulatory Information
Safety, health and environmental regulations/legislation specific for the substance or mixture
The product is not applicable to Toxic/harmful substances control law, Japan
Industrial Safety and Health Act, Japan
Specified chemicals Gr.2 Specific organic solvents
Ethylbenzene
Organic Solvents Class II
Xylene (Mixture of isomers)
Chemical Substances requiring Labeling and Deliver of Documents, etc.
Labeling, etc.
Ethylbenzene(Attached Table 9–70); Xylene (Mixture of isomers)( Attached Table 9–136);
Cumene(Attached Table 9–138); Solvent naphtha(Attached Table 9–330);
1,3,5-trimethylbenzene(Attached Table 9-404); 1,2,4-trimethylbenzene(Attached Table 9-404)
Report required substances
Ethylbenzene(Attached Table 9–70); Xylene (Mixture of isomers)( Attached Table 9–136);
Cumene(Attached Table 9–138); Solvent naphtha(Attached Table 9–330);
1,3,5-trimethylbenzene(Attached Table 9-404); 1,2,4-trimethylbenzene(Attached Table 9-404)
Appended Table 1 Dangerous Substances (related to Article 1, 6, and 9–3)
Flammable (30°C $\langle = FP \langle 65°C \rangle$
Prevention of health problems guidelines published material, Japan
Ethylbenzene
PRTR law, Japan
Listed chemicals Gr.1
Ethylbenzene(9%)(1-053); Xylene (Mixture of isomers)(9%)(1-080); Cumene(2%)(1-083);
1,2,4-trimethylbenzene(19%)(1-296); 1,3,5-trimethylbenzene(5%)(1-297)
Fire Service Act, Japan
Petroleums Gr.2, water non-soluble (Class III) (Designated quantity 1.000L)
Chemical Substances Control Law, Japan
Priority Assessment Chemical Substances (PACSs)
1.2.4-trimethylbenzene(No. 49 Ecotoxicity): Ethylbenzene(No. 50 Human health effect/Ecotoxicity):
Xylene (Mixture of isomers)(No. 125 Human health effect): Cumene(No. 126 Human health effect):
1.3.5-trimethylbenzene(No. 201 Human health effect)
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Offensive Odor Control Law, Japan Xylene (Mixture of isomers) No. 18: Limited value 1 - 5 ppm Air Pollution Control Law, Japan Hazardous air pollutants Ethylbenzene(9th report-24) Xylene (Mixture of isomers)(9th report-43) Water Pollution Control Law, Japan Listed substance(s) Xylene (Mixture of isomers) No. 28 US major regulations

## TSCA

1,2,4-trimethylbenzene; Cumene; Ethylbenzene; 1,3,5-trimethylbenzene; Xylene (Mixture of isomers); Solvent naphtha

California proposition 65

cancer

GHS Assistant

Cumene; Ethylbenzene

#### 16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (6th ed., 2015), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3–1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php

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 GHS classification data given here is based on current Japan official data (NITE published in 2018).