SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name)	:	SS44UV
Manufacturer/Importer/Distributor Information	:	Momentive Performance Materials Japan LLC Akasaka Park Building 5-2-20 Akasaka, Minato-ku Tokyo Japan
Contact person	:	commercial.services@momentive.com
Telephone	:	+81-3-5544-3100
Telefax	:	+81-3-5544-3101
Emergency telephone number	:	+81-3-5544-3111 +81-276-31-4118 (night / weekend)
Responsible Department	:	Product Stewardship & Compliance Group

2 Hazard(s) identification

GHS classification:

Physical Hazards:

Flammable liquids	Category 2

Health Hazards:

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity - Single Exposure	Category 3 (Narcotic effect., Respiratory tract irritation.)
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (Liver, Kidney)
Aspiration Hazard	Category 1

GHS label elements:

Pictograms:

Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

Precautionary Statements:

Prevention: 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 and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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. Get medical advice/attention if you feel unwell. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3 Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Concentration*
Acetone	67-64-1	30 - 60%
2-Propanol	67-63-0	20 - 30%
Xylene	1330-20-7	19%

Ethylbenzene	100-41-4	5.6%
Tetraethyl Silicate	78-10-4	1 - 10%
n-BUTANOL	71-36-3	1 - 10%
Cumene	98-82-8	0.1 - 1.0%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4 First-aid measures

Inhalation: If inhaled, move victim to fresh air and seek medical attention.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention. Wash contaminated clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: This product is not expected to produce adverse effects under normal conditions of use and appropriate personal hygiene.

Notes to the physician: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If swallowed, do NOT induce vomiting. Give a glass of water.

5 Fire-fighting measures

Extinguishing media: Alcohol resistant foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unprotected persons away. Use personal protective equipment. Keep upwind. Remove sources of ignition.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

Methods or materials for containment and cleaning up:	Put in an empty container for recovery after preventing spill by sand or sandbags,if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material,if the amount of spill is small.
Prevention of secondary hazards:	No data available.

7 Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Provide adequate general and local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Provide eyewash station and safety shower.
Safe handling advice:	"Wear eye, hand and respiratory protection when in handling." Keep away from sources of ignition - No smoking. Ground container and transfer equipment to eliminate static electric sparks. Use only in well-ventilated areas. Avoid inhalation of vapors/spray and contact with skin and eyes. Wash thoroughly after handling.
Contact avoidance measures:	Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Practice good housekeeping.
Hygiene measures:	Avoid contact with eyes. When using do not smoke. Wash thoroughly after handling.

Storage

Safe storage conditions:	Keep material from heat, light, sparks and flame. Avoid exposure to high temperatures or direct sunlight. Keep from contact with oxidizing materials. Store in a dark, cool place indoors, with container tightly closed. Nitrogen blanketing of containers is required.
Safe packaging materials:	No data available.

8 Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Regulation Sources
Acetone	TLV	500 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
	TWA	200 ppm 475 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2021)
2-Propanol	TLV	200 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
	CEILING	400 ppm 980 mg/m3	Japan. OELs - JSOH (Recommendation of

Chemical name	Type	Exposure Limit Values	Regulation Sources
			Occupational Exposure Limits), as amended (05 2014)
Xylene	TLV	50 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
	TWA	50 ppm 217 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)
Ethylbenzene	TLV	20 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
	TWA	20 ppm 87 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2021)
Tetraethyl Silicate	TWA	10 ppm 85 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)
n-BUTANOL	TLV	25 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
	CEILING	50 ppm 150 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)

Biological Limit Values

Chemical name	Exposure Limit Values	Source
Acetone (acetone: Sampling time: Within 2 h prior to end of shift.)	40 mg/l (Urine)	JSOH OELB (05 2014)
Ethylbenzene (Mandelic acid: Sampling time: End of shift.)	150 mg/g (Urine)	JSOH OELB (05 2021)
Ethylbenzene (ethylbenzene: Sampling time: End of shift.)	15 µg/l (Urine)	JSOH OELB (05 2021)
Ethylbenzene (Mandelic acid plus phenylglyoxylic acid: Sampling time: End of shift at end of work week.)	200 mg/g (Urine)	JSOH OELB (05 2021)

Personal protective equipment (ppe)

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection: Chemical resistant gloves

Eye Protection: Safety glasses with side shields

Skin and Body Protection:	Chemical resistant clothing Wear rubber boots.

9 Physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Pungent
Odor threshold	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	>36 °C
Flammability	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point	-12 °CClosed Cup
Evaporation rate	No data available.
Auto-ignition temperature	>343 °C
Decomposition temperature	No data available.
SADT	No data available.
pH	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	20.5 mm2/s (40 °C)
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water)Log Pow	No data available.
Vapor pressure	No data available.
Density	0.85 g/cm3
Relative density	0.80
Vapor density	No data available.

10 Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Sunlight.
Incompatible Materials:	Bases.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 22,696.37 mg/kg

Dermal
Product: ATEmix 4,272.9 mg/kg

Inhalation
Product: Vapour: ATEmix 44.16 mg/l
Dusts, mists and fumes: ATEmix 60.19 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Components:

Acetone	No data available. (Rabbit): Corrosive
2-Propanol	No data available.
Xylene	(Rabbit): Slightly irritating.
Ethylbenzene	(Rabbit): Corrosive
Tetraethyl Silicate	No data available.
n-BUTANOL	(Rabbit): Corrosive
Cumene	No data available.

Serious Eye Damage/Eye Irritation
Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	(Rabbit): slightly irritating (not classified according to the German Dangerous Substances legislation) No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available. (Rabbit): Irritating to eyes. No data available.
Cumene	No data available.

Respiratory sensitization

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Skin sensitization

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Carcinogenicity

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Japan Society for Occupational Health: Carcinogen:
No carcinogenic components identified

Japan. ISHL Designated Carcinogen:
No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

In vivo

Product:	No data available.
Components:	
Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Reproductive toxicity

Product:	No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Aspiration Hazard
Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Other effects: No data available.

12 Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment

Fish
Product: No data available.

Components:

Acetone	LC50 (Lepomis macrochirus, 96 h (No data available.)): 8,300 mg/l LC0 (Leuciscus idus, 48 h (No data available.)): 6,320 mg/l LC50 (Leuciscus idus, 48 h (No data available.)): 7,505 mg/l
2-Propanol	LC50 (Leuciscus idus, 48 h): 8,970 mg/l LC50 (Pimephales promelas, 96 h): > 65,500 mg/l
Xylene	LC50 (Leuciscus idus, 48 h): 86 mg/l LC50 (Pimephales promelas, 96 h): 13.4 mg/l LC50 (Salmo gairdneri, 96 h): 14 mg/l
Ethylbenzene	LC0 (Leuciscus idus, 48 h): 26 mg/l LC100 (Leuciscus idus, 48 h): 70 mg/l LC50 (Leuciscus idus, 48 h): 44 mg/l LC50 (Salmo gairdneri, 96 h): 4.2 mg/l
Tetraethyl Silicate	LC100 (No data available., 24 h (No data available.)): 9,000 mg/l LC50 (Brachydanio rerio, 96 h (Tested according to Directive 92/69/EEC.)): > 245 mg/l
n-BUTANOL	LC0 (Leuciscus idus, 48 h (No data available.)): > 1,000 mg/l LC50 (Leuciscus idus, 48 h (No data available.)): 1,520 mg/l LC50 (Pimephales promelas, 96 h (No data available.)): 1,730 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

2-Propanol	EC50 (Daphnia magna, 24 h): > 10,000 mg/l EC0 (Daphnia magna): 500 mg/l
Xylene	EC50 (Daphnia magna, 24 h): 165 mg/l
Ethylbenzene	LC0 (Daphnia magna): 137 mg/l (Daphnia magna): 184 mg/l LC100 (Daphnia magna): 200 mg/l
Tetraethyl Silicate	EC50 (Blue Crab(No data available.)): 7,800 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Toxicity to microorganisms

Product: No data available.

Components

Acetone	EC50 (Pseudomonas putida): > 1,700 mg/l (No data available.)
2-Propanol	EC0 (Pseudomonas putida, 24 h): 1,050 mg/l
Xylene	No data available.
Ethylbenzene	EC50 (activated sludge (adaptation not specified)): 130 mg/l EC50 (Pseudomonas putida): > 12 mg/l
Tetraethyl Silicate	No data available.
n-BUTANOL	EC0 (Pseudomonas putida): 200 mg/l (No data available.) EC50 (Pseudomonas putida): > 2,250 mg/l (No data available.)
Cumene	No data available.

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Acetone	No data available.
2-Propanol	No data available.
Xylene	No data available.
Ethylbenzene	No data available.
Tetraethyl Silicate	No data available.
n-BUTANOL	No data available.
Cumene	No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Acetone	50 % (5 d, No data available.) 78 % (28 d, No data available.)
2-Propanol	82.5 % (5 d, No data available.)
Ethylbenzene	68 % (28 d, No data available.)
Tetraethyl Silicate	98 % (28 d, OECD-Guideline 301 A (DOC Die-Away Test)) Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Hazardous to the ozone layer: Not Regulated

Further Information: No data available.

13 Disposal considerations

General information: Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment. This product is highly flammable. Don't use fire to cut empty container after use.

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: Dispose of as unused product.

14 Transport information

International regulations

IMDG - International Maritime Dangerous Goods Code

UN number or ID number	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.(Acetone, Isopropanol)
Class	3
Packing Group	II
Label(s)	3
Subsidiary risk label	
Marine Pollutant	No
EmS No.	F-E; S-E

IATA

UN number or ID number:	UN 1993
Proper Shipping Name:	Flammable liquid, n.o.s.(Acetone, Isopropanol)
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Packing Group:	II
Environmental Hazards:	Not regulated.
Marine Pollutant:	No

National Regulations

Domestic Standard: In compliance with domestic law.

15 Regulatory information

Japan CSCL:

Priority Assessment Chemical Substances:

Acetone
Isopropyl alcohol
Xylene
Ethylbenzene
1-Butanol

Monitoring Chemical Substances: Not Regulated

Law concerning Pollutant Release and Transfer Register:

Specified Class 1 substance(s): Not Regulated

Class 1 Substance(s): XYLENE; ETHYLBENZENE;
Class 2 Substance(s): Not Regulated

Industrial Safety and Health Act:

Article 57-2 Regulated Substance(s): ACETONE; PROPYL ALCOHOL; XYLENE; ETHYLBENZENE; TETRAETHOXYSILANE; 1-BUTANOL; CUMENE;

Article 57 Regulated Substance(s) subject to labeling:
ACETONE
ISOPROPYL ALCOHOL
XYLENE
ETHYLBENZENE
TETRAETHOXYSILANE
1-BUTANOL

Organic Solvent Regulation

Class 2 organic solvents:
ACETONE
ISOPROPYL ALCOHOL
XYLENE
1-BUTANOL
TOLUENE

Specified Substances Regulation:

Class 1 designated chemical substances:
Not Regulated
Class 2 designated chemical substances:
ETHYLBENZENE
Class 3 designated chemical substances:
Not Regulated

Poisonous and Deleterious Substances Control Act:

Specified poisonous substance(s):

Main law: Not Regulated

Cabinet order: Not Regulated

Poisonous Substance(s):

Main law: Not Regulated

Cabinet order: Not Regulated

Deleterious Substance(s):

Main law:	Not Regulated
Cabinet order:	Not Regulated
Fire Service Law:	Group 4: Flammable liquids, Type 1 petroleums, Water insoluble liquid Hazardous rank II Keep away from fire
High Pressure Gas Safety Law:	Not Regulated
Act on Prevention of Marine Pollution and Maritime Disaster:	Not Regulated

Inventory Status:

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

16 Other Information

Revision Information: ARGLO_INVSTSARGHS_JP
Issue Date: 09/16/2022
SDS No.:

Disclaimer:

Notice to reader

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the body.

Further Information

The information provided in this Safety Data Sheet is correct to the best ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release 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.

Literature Reference: No data available.