

SAFETY DATA SHEET

PRODUCT NAME KEM AQUA Solvent FAT

Data of issue 6/11/2018 Date of revision 2/4/2024 (Confirmation)

1. Identification of the substance or mixture and the supplier

Product name	KEM AQUA Solvent FAT		
SDS No.	GHS-0067E		
Name of supplier	Kyoto Electronics Manufacturing Co., Ltd.		
Address 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan			
Division Quality Assurance Department			
Phone	+81-75-691-4121		
Fax	+81-75-691-4127		
Recommended uses and restri	ctions on use		
Recommended use	For analysis		
Restrictions on use	When using for purposes other than those recommended, consult a specialist.		

2. Hazard identification

GHS classification				
Ph	ysical hazards			
	Flammable liquids	Category 3		
He	alth hazards			
	Acute toxicity / Oral	Category 4		
	Acute toxicity / Inhalation	Category 4		
	Skin corrosion / Irritation	Category 2		
	Serious eye damage / Eye irritation	Category 1		
	Germ cell mutagenicity	Category 2		
	Carcinogenicity	Category 2		
	Reproductive toxicity	Category 1B		
	Specific target organ toxicity (single exposure)	Category 1(Liver, Respiratory organs, Kidney, Systemic		
		toxicity, Central nervous system, Cardio-vascular		
		system, Visual organs)		
		Category 3(Narcotic effects)		
	Specific target organ toxicity (repeated exposure	Category 1(Liver, Respiratory organs, Kidney, Central		
		nervous system, Visual organs)		
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Environmental hazards



Short-term (acute) aquatic hazard	Category 3
Long-term (chronic) aquatic hazard	Category 1
GHS label elements	
Hazard pictograms	
Signal words	Danger
Hazard statements	H226 Flammable liquid and vapor.
	H302 + H332 Harmful if swallowed or if inhaled.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H336 May cause drowsiness or dizziness.
	H341 Suspected of causing genetic defects.
	H351 Suspected of causing cancer.
	H360 May damage fertility or the unborn child.
	H370 Causes damage to organs (Liver, Respiratory
	organs, Kidney, Systemic toxicity, Central nervous
	system, Cardio-vascular system).
	H372 Causes damage to organs (Liver, Respiratory
	organs, Kidney, Central nervous system) through
	prolonged or repeated exposure.
	H402 Harmful to aquatic life.
	H410 Very 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.
	P210 Keep away from heat, hot surfaces, sparks, open
	flames and other ignition sources. No smoking.
	P233 Keep container tightly closed.
	P240 Ground and bond container and receiving
	equipment.
	P241 Use explosion-proof electrical/ventilating/lighting/
	equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.

	1 200 DO HOL DIEALHE MIST OF VAPOIS.
	P264 Wash skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this
	product.
	P271 Use only outdoors or in a well-ventilated area.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye
	protection/ face protection.
Response	P301 + P312 + P330 IF SWALLOWED: Call a POISON
	CENTER/ doctor if you feel unwell. Rinse mouth.
	P303 + P361 + P353 IF ON SKIN (or hair): Take off
	immediately all contaminated clothing. Rinse skin with
	water.
	P304 + P340 + P312 IF INHALED: Remove person to
	fresh air and keep comfortable for breathing. Call a
	POISON CENTER/ doctor if you feel unwell.
	P305 + P351 + P338 + P310 IF IN EYES: Rinse
	cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue
	rinsing. Immediately call a POISON CENTER/ doctor.
	P308 + P311 IF exposed or concerned: Call a POISON
	CENTER/ doctor.
	P332 + P313 If skin irritation occurs: Get medical advice/
	attention.
	P362 + P364 Take off contaminated clothing and wash it
	before reuse.
	P370 + P378 In case of fire: Use dry sand, dry chemical
	or alcohol-resistant foam to extinguish.
	P391 Collect spillage.
Storage	P403 + P233 Store in a well-ventilated place. Keep
	container tightly closed.
	P403 + P235 Store in a well-ventilated place. Keep cool.
	P405 Store locked up.
Disposal	P501 Dispose of contents/ container to an approved
	waste disposal plant.
Other hazards which do not result in classification	None known.

P260 Do not breathe mist or vapors.



3. Composition/Information on ingredients

substance / mixture

mixture

Components

No.	Chemical name	CAS No.	Concentration	ENCS / ISHL
			(% w/w)	number
1	chloroform	67-66-3	>=80-<90	2-37
2	methanol	67-56-1	10-20	2-201
3	2-(methylamino)pyridine	4597-87-9	1-5	8-(1)-3318
4	sulfur dioxide	7446-09-5	<1	1-536
5	ethanol	64-17-5	<1	2-202

4. First-aid measures

General advice	Move out of dangerous area.
	Consult a physician.
	Show this material safety data sheet to the doctor in attendance.
	Do not leave the victim unattended.
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.
In case of skin contact	Wash off with soap and plenty of water.
	Wash contaminated clothing before re-use.
	Remove contaminated clothing and shoes.
	If skin irritation or rash occurs: Get medical advice/ attention.
In case of eye contact	Immediately flush eye(s) with plenty of water.
	Protect unharmed eye.
	Keep eye wide open while rinsing.
	If eye irritation persists, consult a specialist.
	Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	Rinse mouth with water.
	Do NOT induce vomiting.
	If large quantities of this material are swallowed, call a physician immediately.
Most important symptoms	Harmful if swallowed or if inhaled.
and effects, both acute and	Causes skin irritation.
delayed	Causes serious eye damage.
	May cause drowsiness or dizziness.
	Suspected of causing genetic defects.
	Suspected of causing cancer.



May damage fertility or the unborn child.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Carbon dioxide (CO2)
	Dry sand
	Regular foam
	Vermiculite
Unsuitable extinguishing media	High volume water jet
Specific hazards during fire	Do not allow run-off from fire fighting to enter drains or water courses.
fighting	
Specific extinguishing methods	Collect contaminated fire extinguishing water separately. This must not be
	discharged into drains.
	Fire residues and contaminated fire extinguishing water must be disposed of in
	accordance with local regulations.
Special protective equipment for	Use personal protective equipment.
fire-fighters	

6. Accidental release measures

Personal precautions,	Use personal protective equipment.
protective equipment and	Remove all sources of ignition.
emergency procedures	
Environmental precautions	Prevent product from entering drains.
	Prevent further leakage or spillage if safe to do so.
	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal
containment and cleaning up	binder, sawdust).
	Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling



Advice on protection against fire	and Do not spray on a naked flame or any incandescent material.
explosion	Take necessary action to avoid static electricity discharge (which might
	cause ignition of organic vapors).
	Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	Take precautionary measures against static discharges.
	Keep away from fire, sparks and heated surfaces.
	Wash skin thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Use only in area provided with appropriate exhaust ventilation.
Avoidance of contact	No data available
Hygiene measures	When using do not eat or drink.
	When using do not smoke.
	Wash hands before breaks and at the end of workday.
Storage	
Conditions for safe storage	Keep in a well-ventilated place.
	Store at room temperature.
	To maintain product quality, do not store in heat or direct sunlight.
	Keep container tightly closed.
Further information on storage	No decomposition if stored and applied as directed.
stability	

8. Exposure controls/Personal protection

Threshold limit value and permissible exposure limits for each component in the work environment

CAS-No	Value type	Control parameters /	Basis
CAS-NU.	value type	Control parameters /	Dasis
	(Form of	Reference concentration /	
	exposure)	Permissible concentration	
67-66-3	ACL	3ppm	JP OEL ISHL
	OEL-M	3ppm	JP OEL
	14.7mg/m ³ JSOH		JSOH
Further information: Skin absorption, Group 2B: possibly carcinogenic to humans			
	TWA 10ppm ACGIH		ACGIH
67-56-1	ACL 200ppm JF		JP OEL ISHL
	OEL-M 200ppm .		JP OEL
	260mg/m ³ JSOH		JSOH
Further information: Group 2: Substances presumed to cause reproductive toxicity in			
humans, Skin absorption			
	TWA 200ppm ACGIH		ACGIH
	Further informatio	67-66-3 ACL 0EL-M Further information 57-56-1 ACL 0EL-M Further information Further information Further information Skin absorption Further information Skin absorption Further information Skin absorption	(Form of exposure)Reference concentration / Permissible concentration67-66-3ACL3ppm67-66-3OEL-M3ppm0EL-M14.7mg/m³Further information:Skin absorptionFurther information:TWA10ppm67-56-1ACL200ppm0EL-M200ppm0EL-M260mg/m³Further information:Group 2: Substructs presumed to cause reprhumans, Skin absorptionKin absorption



		STEL	250ppm	ACGIH
sulphur dioxide	7446-09-5	STEL	0.25pm	ACGIH
ethanol	64-17-5	STEL	1,000pm	ACGIH
ological occupational exposure limits				

Biological occupational exposure limits

510							
	Components	CAS-No.	Target	Biological	Sampling time	Permissible	Basis
			substance	specimen		concentration	
	methanol	67-56-1	Methanol	Urine	End of shift	20mg/L	JSOH
			Methanol	Urine	End of shift (As	15mg/L	ACGIH
					soon as		BEI
					possible after		
					exposure		
					ceases)		

Personal protective equipment

Respiratory protection	Suitable respiratory equipment
Hand protection material	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Protective suit

Physical and chemical properties 9.

Physical state	Liquid.		
Color	Light yellow, transparent		
Odor	pungent		
Melting point / Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flammability (liquids)	No data available		
Lower explosion limit and upper explosion limit / flammability limit			
Upper explosion limit / Upper flammability limit	No data available		
Lower explosion limit / Lower flammability limit	No data available		
Flash point	51.8℃		
Decomposition temperature	No data available		
рН	No data available		
Autoignition temperature	No data available		
Self-Accelerating decomposition temperature	No data available		
(SADT)			
Viscosity			
Viscosity, kinematic	0.51mm²/s		
Solubility(ies)			



Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density and / or relative density Relative density	1.277 (20℃)
Density	No data available
Relative vapor density	No data available
Particle characteristics Particle size	No data available

10. Stability and reactivity

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	May cause fire, explosion, and/or generation of a hazardous gas
Conditions to avoid	No data available
Incompatible materials	No data available

11. Toxicological information

Acute toxicity	Harmful if swallowed or if inhaled.	
Product		
Acute oral toxicity	The component/mixture is moderately toxic after single ingestion.	
Acute inhalation toxicity	Test atmosphere vapor	
	The component/mixture is moderately toxic after short term inhalation.	
chloroform		
Acute oral toxicity	LD50 (Rat) 440mg/kg	
	The component/mixture is moderately toxic after single ingestion.	
Acute inhalation toxicity	LC50 (Rat) 9,770ppm, Exposure time 4 h, Test atmosphere vapor	
	Test atmosphere vapor	
	The component/mixture is moderately toxic after short term inhalation.	
Acute dermal toxicity	LD0 (Rabbit) 3,980mg/kg	
methanol		
Acute oral toxicity	LD50 1,400mg/kg	
Acute inhalation toxicity	LC50 (Rat) 64,000ppm, Exposure time 4 h, Test atmosphere vapor	
	LC50 (Rat) 145,000ppm, Exposure time 1 h, Test atmosphere dust / mist	
Acute dermal toxicity	LDLo 393mg/kg	
sulphur dioxide		
Acute inhalation toxicity	LC50 (Rat) 593 - 1319ppm, Exposure time 4 h, Test atmosphere gas	
ethanol		





Acute oral toxicity	LD50 (Rat) 15,010mg/kg	
Acute inhalation toxicity	LC50 (Rat) 124.7mg/L, Exposure time 4 h, Test atmosphere vapor	
Acute dermal toxicity	LDLo (Rabbit) 20,000mg/kg	
Skin corrosion/irritation	Causes skin irritation.	
Product	Skin irritation	
	Extremely corrosive and destructive to tissue.	
chloroform	Skin irritation	
2-(methylamino)pyridine	Skin irritation	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Product	Irreversible effects on the eye	
	May cause irreversible eye damage.	
chloroform	Causes serious eye damage.	
methanol	Causes eye irritation.	
2-(methylamino)pyridine	Eye irritation.	
sulphur dioxide	Causes serious eye irritation.	
ethanol	Causes serious eye irritation.	
Respiratory or skin sensitization		
Skin sensitization	Not classified based on available information.	
Respiratory sensitization	Not classified based on available information.	
Germ cell mutagenicity	Suspected of causing genetic defects.	
Product	Suspected of inducing heritable mutations in the germ cells of humans.	
chloroform	Suspected of inducing heritable mutations in the germ cells of humans.	
Carcinogenicity	Suspected of causing cancer.	
Product	Suspected human carcinogens	
chloroform	Suspected human carcinogens	
Reproductive toxicity	May damage fertility or the unborn child.	
Product	Presumed human reproductive toxicant	
chloroform	Presumed human reproductive toxicant	
methanol	Presumed human reproductive toxicant	
STOT-single exposure	May cause drowsiness or dizziness.	
	Causes damage to organs (Liver, Respiratory organs, Kidney, Systemic	
	toxicity, Central nervous system, Cardio-vascular system).	
Product	Target Organs Liver, Respiratory organs, Kidney, Systemic toxicity, Central	
	nervous system, Cardio-vascular system, Visual organs	
	The substance or mixture is classified as specific target organ toxicant, single	
	exposure, category 1.	
	The substance or mixture is classified as specific target organ toxicant, single	
	exposure, category 3 with narcotic effects.	



chloroform	Target Organs Liver, Respiratory organs, Kidney, Cardio-vascular system		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 1.		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 3 with narcotic effects.		
methanol	Target Organs Systemic toxicity, Central nervous system, Visual organs		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 1.		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 3 with narcotic effects.		
sulphur dioxide	Target Organs Respiratory organs		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 1.		
ethanol	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 3 with respiratory tract irritation.		
	The substance or mixture is classified as specific target organ toxicant, single		
	exposure, category 3 with narcotic effects.		
STOT-repeated exposure	Causes damage to organs (Liver, Respiratory organs, Kidney, Central nervous		
	system) through prolonged or repeated exposure.		
chloroform	Target Organs Liver, Respiratory organs, Kidney, Central nervous system		
	The substance or mixture is classified as specific target organ toxicant,		
	repeated exposure, category 1.		
methanol	Target Organs Central nervous system, Visual organs		
	The substance or mixture is classified as specific target organ toxicant,		
	repeated exposure, category 1.		
sulphur dioxide	Target Organs Respiratory organs		
	The substance or mixture is classified as specific target organ toxicant,		
	repeated exposure, category 1.		
Aspiration toxicity	Not classified based on available information.		
Remarks	Symptoms of overexposure may be headache, dizziness, tiredness,		
	nausea and vomiting.		
	Concentrations substantially above the TLV value may cause narcotic		
	effects.		
	Solvents may degrease the skin.		

12. Ecological information

Ecotoxicity



Product	
Acute aquatic toxicity	Harmful to aquatic life.
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.
chloroform	
Toxicity to algae/aquatic	EC50 (Chlamydomonas reinhardtii (green algae)) 13.3 mg/L, Exposure time 72 h
plants	
Toxicity to fish (Chronic	NOEC (Oncorhynchus mykiss (rainbow trout)) 0.059 mg/L, Exposure time 28 Days
toxicity)	
M-Factor (Chronic aquatic	1
toxicity)	
methanol	
Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) 15,400 mg/L, Exposure time 96 h
Toxicity to daphnia and	EC50 (Daphnia magna (Water flea)) > 10,000 mg/L, Exposure time 48 h
other aquatic invertebrates	
Toxicity to algae/aquatic	EC50 (Chaetoceros calcitrans) > 10,000 - < 20,000 mg/L, Exposure time 96 h
plants	NOEC (Skeletonema costatum (marine diatom)) 1,400 mg/L, End point Growth
	inhibition Exposure time 96 h
Toxicity to fish (Chronic	NOEC (Oreochromis mossambicus) 23.75 mg/L, End point Growth inhibition
toxicity)	Exposure time 90 Days
ethanol	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 13,000 mg/L, Exposure time 96 h
Toxicity to daphnia and	EC50 (Daphnia magna (Water flea)) 12,340 mg/L, End point mortality, Exposure
other aquatic invertebrates	time 48 h
Toxicity to algae/aquatic	EC50 (Lemna minor (duckweed)) 3,690 mg/L, End point Growth inhibition,
plants	Exposure time 7 Days
	NOEC (Lemna gibba (gibbous duckweed)) 280 mg/L, End point Growth inhibition
	Exposure time 7 Days
Toxicity to fish (Chronic	NOEC (Ceriodaphnia dubia (Water flea)) 9.6 mg/L, End point Reproductive
toxicity)	inhibition Exposure time 10 Days
	inhibition, Exposure time 10 Days
Persistence and degradabilit	
• •	
Persistence and degradabilit	
Persistence and degradabilit Biodegradability	y
Persistence and degradabilit Biodegradability	y Biochemical oxygen demand Not rapidly biodegradable, Biodegradation 0 %,
Persistence and degradabilit Biodegradability chloroform methanol	Biochemical oxygen demand Not rapidly biodegradable, Biodegradation 0 %, Exposure time 14 d Biochemical oxygen demand rapidly biodegradable, Biodegradation 92 %, Exposure time 14 d
Persistence and degradabilit Biodegradability chloroform	Biochemical oxygen demand Not rapidly biodegradable, Biodegradation 0 %, Exposure time 14 d Biochemical oxygen demand rapidly biodegradable, Biodegradation 92 %,
Persistence and degradabilit Biodegradability chloroform methanol	Biochemical oxygen demand Not rapidly biodegradable, Biodegradation 0 %, Exposure time 14 d Biochemical oxygen demand rapidly biodegradable, Biodegradation 92 %, Exposure time 14 d

chloroform	Partition coefficient: n-octanol/water log Pow = 1.97
methanol	Species Cyprinus carpio (Carp), Bioconcentration factor (BCF) < 10, Exposure
	time: 72 h
	Partition coefficient: n-octanol/water log Pow = - 0.77
ethanol	Partition coefficient: n-octanol/water log Pow = - 0.31 (25° C)
Mobility in soil	No data available
Hazardous to the ozone	Not applicable
layer	
Other adverse effects An environmental hazard cannot be excluded in the event of unprofession	
	or disposal. Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

Waste from	Can be incinerated, when in compliance with local regulations.
residues	Send to a licensed waste management company.
Contaminated	Empty remaining contents.
packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
	Dispose of contents/ container to an approved waste disposal plant.

14. Transport information

International Regulations				
IATA-DGR				
UN / ID No.	UN1993			
Proper shipping name	Flammable liquid, n.o.s. (Methanol, solution)			
Class	3			
Packing group	Ш			
Labels	Flammable Liquids			
Packing instruction (cargo aircraft)	366			
IMDG-Code				
UN No.	UN1993			
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (METHANOL solution)			
Class	3			
Packing group	Ш			
Labels	3			
EmS Code	F-E, S-E			
Marine pollutant	no			

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



Domestic regulationPleasSpecial precautions for userThe t

Not applicable for product as supplied.

Please refer to the law and local regulations, etc. in each country The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

16. Other information

Full text of other abbreviations	
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	ACGIH - Biological Exposure Indices (BEI)
JP OEL ISHL	Japan. Administrative Control Levels
JP OEL JSOH	Japan. The Japan Society for Occupational Health. Recommendation of
	Occupational Exposure Limits
ACGIH/TWA	8-hour, time-weighted average
ACGIH/STEL	Short-term exposure limit
JP OEL ISHL / ACL	Administrative Control level
JP OEL JSOH / OEL-M	Occupational Exposure Limit-Mean

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm;



NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR -No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS -Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System.

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, 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.