

SAFETY DATA SHEET

1. Identification

Product identifier UVGEL 356C INK MAGENTA

Other means of identification

Article Number 1070092853
Product code 1965C030AA

Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing ink.
Recommended restrictions Other uses not recommended.

Manufacturer/Importer/Supplier/Distributor information

Company name Not available.
Address Not available.
Telephone Not available.
E-mail Not available.
Emergency phone number Not available.

2. Hazards identification

GHS classification

Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Sensitization, skin Category 1
Reproductive toxicity Category 1B
Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statements

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment. Wear eye protection/face protection.
Response IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
Storage Not assigned.
Disposal Not assigned.

Other hazards which do not result in classification

None known.

Supplemental information

None.

3. Composition/information on ingredients

Substance or mixture

Mixture

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE		94108-97-1	10 - < 30
Neopentylglycol Hydroxypivalate Diacrylate		30145-51-8	10 - < 30
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE		84170-74-1	10 - < 30

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
(4-tert-butylcyclohexyl) Prop-2-enoate		84100-23-2	5 - <10
Propylidynetrimethanol, Ethoxylated, Esters With Acrylic Acid, Reaction Products With Diethylamine		159034-91-0	5 - <10
Ethyl 4-dimethylaminobenzoate		10287-53-3	1 - < 5
Neopentyl Glycol Diacrylate		2223-82-7	1 - < 5
GLYCEROL PROPOXYLATE TRIACRYLATE		52408-84-1	1 - <2.5
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide		162881-26-7	< 1
Trimethylolpropane Triacrylate, Ethoxylated		28961-43-5	< 0.25

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Control parameters/Occupational exposure limits**

No exposure limits noted for ingredient(s).

Appropriate engineering control measures

Provide adequate ventilation. See operator manual or safety data sheet of the printer.

Individual protection measures, such as personal protective equipment**Eye/face protection**

If contact is likely, safety glasses with side shields are recommended.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Incidental contact: Glove material: Nitrile.. Use gloves with breakthrough time of 10 minutes. Minimum glove thickness 0,12 mm. Incidental contact: Glove material: Nitril. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0,4 mm.
Ansell Microflex ® 93-260 (60 minutes)

Other

Not required during normal intended use of this product.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Not required during normal intended use of this product.

Thermal hazards

Not normally needed.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance**

Liquid.

Physical state

Liquid.

Form

Liquid.

Colour

Magenta.

Odour

Slightly.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

-69 °C (-92.2 °F) / -82.73 °C (-116.91 °F) estimated

Initial boiling point and boiling range

224.83 °C (436.7 °F) estimated

Flash point

142.5 °C (288.5 °F)

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit – upper (%)

Not available.

Vapour pressure	8.46 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	338 °C (640.4 °F)
Decomposition temperature	Not available.
Viscosity	296 mPa·s (17 °C (62.6 °F))
Other data	
Density	1.07 g/cm ³
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
VOC	0.01 % estimated

10. Stability and reactivity

Reactivity	Not applicable.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	None under normal conditions.
Incompatible materials	Not applicable.
Hazardous decomposition products	No hazardous decomposition products are known.
Other information	Not available.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Not applicable. However, ingestion is not likely to be a primary route of occupational exposure.

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
(4-tert-butylcyclohexyl) Prop-2-enoate (CAS 84100-23-2)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg bw/day, 14 days
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE (CAS 94108-97-1)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
<i>Vapour</i>		
LC50	Rat	> 0.41 mg/l, 7 Hours Read across
Oral		
LD50	Rat	> 5000 mg/kg OECD401
Ethyl 4-dimethylaminobenzoate (CAS 10287-53-3)		
Acute		
Dermal		
<i>Solid</i>		
LD50	Rabbit	> 2000 mg/kg bw/day

Components	Species	Test Results
Oral <i>Solid</i> LD50	Rat	> 2000 mg/kg bw/day
GLYCEROL PROPOXYLATE TRIACRYLATE (CAS 52408-84-1)		
Acute Dermal LD50	Rabbit	> 2000 mg/kg, 24 Hours
Oral LD50	Rat	> 2000 mg/kg
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide (CAS 162881-26-7)		
Acute Dermal LD50	Rat	> 2000 ml/kg
Oral LD50	Rat	> 2000 mg/kg
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE (CAS 84170-74-1)		
Acute Dermal LD50	Rat	> 2000 mg/kg, 24 Hours
Oral LD50	Rat	> 5000 mg/kg
Trimethylolpropane Triacrylate, Ethoxylated (CAS 28961-43-5)		
Acute Dermal LD50	Rabbit	> 13200 mg/kg
Oral LD50	Rat	> 500 mg/kg
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE DI(TRIMETHYLOLPROPANE) TETRAACRYLATE		OECD 404 Result: Not irritating OECD 404 Result: Not irritating Species: Rabbit
Ethyl 4-dimethylaminobenzoate		OECD 404 Result: Not irritating Species: Rabbit
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide		OECD 404 Result: Not irritating Species: Rabbit
Serious eye damage/eye irritation	Causes serious eye irritation.	
Eye PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE Ethyl 4-dimethylaminobenzoate		OECD 405 Result: Not irritating OECD 405 Result: Not irritating Species: Rabbit
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide		OECD 405 Result: Not irritating Species: Rabbit
Irritation Corrosion - Eye Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide DI(TRIMETHYLOLPROPANE) TETRAACRYLATE		OECD 405 Result: Not irritating OECD405 Result: irritating

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

Skin sensitisation

Ethyl 4-dimethylaminobenzoate	OECD 406 Result: Not sensitizing Species: Guinea pig
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	OECD 406 Result: sensitising Species: Guinea pig
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 406 Result: sensitising Species: Guinea pig
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	OECD 429 Result: positive Species: Mouse
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 429 Result: sensitising Severity: EC3=4,6%

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Germ cell mutagenicity: Ames test

Ethyl 4-dimethylaminobenzoate	OECD 471 Result: Negative.
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	OECD 471 Result: Negative.
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 471 Result: Negative.
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	OECD 471 Result: positive
(4-tert-butylcyclohexyl) Prop-2-enoate	OECD471, (similar product) Result: Negative

Germ cell mutagenicity: Chromosome aberration

Ethyl 4-dimethylaminobenzoate	OECD 471, without metabolic activation. Result: Negative.
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	OECD 473 Result: Negative.
Ethyl 4-dimethylaminobenzoate	OECD 473, with metabolic activation Result: positive
(4-tert-butylcyclohexyl) Prop-2-enoate	OECD473, (similar product) Result: Negative

Germ cell mutagenicity: Micronucleus

DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	OECD 474 Result: Negative.
Ethyl 4-dimethylaminobenzoate	OECD 474 Result: Negative. Species: Mouse
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 474, (similar product) Result: Negative.

Mutagenicity

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 467 Result: Negative.
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	OECD 476 Result: Negative.

Carcinogenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive toxicity May damage fertility or the unborn child.

Developmental effects

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	OECD 414 Result: Negative. Species: Rat
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Fertility effects - Males

Ethyl 4-dimethylaminobenzoate	OECD 421 Result: Adverse effects for fertility Species: Rat Organ: Testes
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Fertility effects - Males and females

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 421 Result: Negative.
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Reproductivity

PROPOXYLATED NEOPENTYL GLYCOL
DIACRYLATE
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE

OECD 421
Result: Negative.
OECD 422, (similar product)
Result: Negative.
Species: Rat
OECD414
Result: Negative.

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide

Specific target organ toxicity - single exposure Not applicable.

Specific target organ toxicity - repeated exposure Not classified.

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE

OECD 407
Result: Negative.
Species: Rat
Result: Negative.
Species: Rat
Test Duration: 90 d

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide

Aspiration hazard Not an aspiration hazard.

Chronic effects Not available.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components	Species		Test Results
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE (CAS 94108-97-1)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fish	1.2 mg/l, 96 h
Ethyl 4-dimethylaminobenzoate (CAS 10287-53-3)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	2.8 mg/l, 72 h
Crustacea	LC50	Daphnia	31.8 mg/l, 48 h
Fish	LC50	Fish	1.9 mg/l, 96 h
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide (CAS 162881-26-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	0.26 mg/l, 72 h Supersaturated suspension
Crustacea	LC50	Daphnia	1.1 mg/l, 48 h Supersaturated suspension
Fish	LC50	Fish	> 90 µg/l, 96 h Supersaturated suspension
<i>Chronic</i>			
Crustacea	NOEC	Crustacea	8.1 µg/l, 21 d
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE (CAS 84170-74-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	3.4 mg/l, 72 h
Crustacea	LC50	Daphnia	37 mg/l, 48 h
Fish	LC50	Fish	2.7 mg/l, 96 h

Persistence and degradability

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Ethyl 4-dimethylaminobenzoate

OECD 301B, Not readily biodegradable
Result: 40

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE

Result: Inherently biodegradable

Bioaccumulative potential

Bioconcentration factor

DI(TRIMETHYLOLPROPANE) TETRAACRYLATE

388 % v/w

Bioconcentration factor

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide < 5

Octanol/water partition coefficient log Kow

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide 5.8

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE 2.41 - 3.87, Log Kow

Mobility in soil

No data available.

Adsorption**Soil/Sediment Sorption - Log Koc**

Ethyl 4-dimethylaminobenzoate Result: 2,8

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide 3.85

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations**Disposal methods/information**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

14. Transport information**ADR****UN number**

UN3082

UN proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE)**Transport hazard class(es)****Class** 9**Subsidiary risk** -**Label(s)** 9**Hazard No. (ADR)** 90**Tunnel restriction code** E**Packing group** III**Environmental hazards** Yes**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**RID****UN number**

UN3082

UN proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE)**Transport hazard class(es)****Class** 9**Subsidiary risk** -**Label(s)** 9**Packing group** III**Environmental hazards** Yes**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**ADN****UN number**

UN3082

UN proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE)**Transport hazard class(es)****Class** 9**Subsidiary risk** -**Label(s)** 9**Packing group** III**Environmental hazards** Yes**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**IATA****UN number**

UN3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE)

Transport hazard class(es)**Class** 9**Subsidiary risk** -

Packing group III
Environmental hazards Yes
ERG Code 9L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE), MARINE POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk -

Packing group III

Environmental hazards

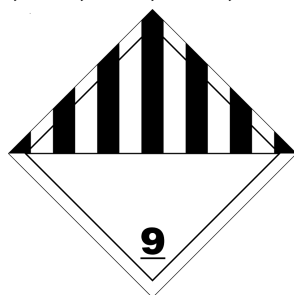
Marine pollutant Yes

EmS F-A, S-F

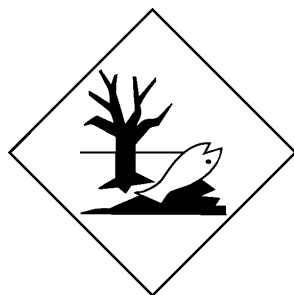
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1, 2013)

Not regulated.

Chemical Weapons Prohibition (Act)

Not applicable.

Environmental Protection and Management (Hazardous Substances) Regulations

Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide 0 kg
(CAS 162881-26-7)

Environmental Public Health Act

Not applicable.

International regulations**Montreal Protocol**

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.
Disclaimer	The information in this Safety Data Sheet is based on the present state of knowledge and current legislation and is believed to be accurate. It provides guidance on health, safety and environmental aspects of the product and should neither be construed as any guarantee of specific properties nor of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1. This document was prepared to the requirements of the jurisdiction in Section 1 and may not meet regulatory requirements in other countries or territories. The information contained in this safety data sheet does not replace the user's own assessment of workplace risks, as required by applicable health and safety legislation.
Issue date	01-November-2019
Revision date	10-June-2020
Key/legend	Not applicable.
Revision information	Product and Company Identification: Product and Company Identification Hazards identification: Disposal Hazards identification: Response Hazards identification: Storage Hazards identification: Supplemental information Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Material Attributes & Uses; Experimental Data: Product Uses HazReg Data: Pacific Rim