

1. Identification

GHS product identifier UVGEL 356C INK CYAN

Other means of identification
Article Number 1070092850
Product code 1965C029AA

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
Supplier Canon Marketing (Philippines), Inc.
Address 7/F Commerce & Industry Plaza
 1030 Campus Ave Corner Park Ave
 McKinley
City Hill Fort Bonifacio, Taguig City 1634
Country Philippines
Telephone Number
E-mail address sds-hq@oce.com
Emergency telephone number
NCEC Service +63 2 8231 2149 For chemical emergencies only.

2. Hazard(s) identification

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

Label elements



Signal word Danger

Hazard statement
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H360 May damage fertility or the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statement
Prevention
 P273 Avoid release to the environment.
 P280 Wear protective gloves and eye/face protection.

Response
 P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Storage Not assigned.

Disposal	Not assigned.
Other hazards which do not result in classification	None known.
Supplemental information	None.
National/local information	Not available

3. Composition/information on ingredients

Product code 1965C029AA

Mixtures

Chemical identity	Common name and synonyms	CAS number	%
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE		94108-97-1	25 - < 50
Neopentylglycol Hydroxypivalate Diacrylate		30145-51-8	25 - < 50
(4-tert-butylcyclohexyl) Prop-2-enoate		84100-23-2	5 - <10
Neopentyl Glycol Diacrylate		2223-82-7	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
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE		84170-74-1	1 - < 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 (CO2).
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.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
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

For non-emergency personnel 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.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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.

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.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. 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

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Incidental contact: Glove material: Nitril.. Use gloves with breakthrough time of 10 minutes. Minimum glove thickness 0,12 mm. Incidental contact: Glove material: Solvex. 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. Not applicable.

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

Blue

Odour

Slight.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

-69 °C (-92.2 °F)

Initial boiling point and boiling range	219.48 °C (427.06 °F) estimated
Flash point	145.1 °C (293.2 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapour pressure	9.6 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	341 °C (645.8 °F)
Decomposition temperature	Not available.
Viscosity temperature	17 °C (62.6 °F) (248 mPa·s)
Other information	
Density	1.07 g/cm ³ (25 °C (77 °F))
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

10. Stability and reactivity

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Not applicable.
Hazardous decomposition products	No hazardous decomposition products are known.
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
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.

Symptoms related to the physical, chemical and toxicological characteristics 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.

Information on toxicological effects

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

Components	Species	Test Results
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
Oral		
<i>Solid</i>		
LD50	Rat	> 2000 mg/kg bw/day
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
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin		
PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE	OECD 404	Result: Not irritating
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	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	OECD 405	Result: Not irritating
Ethyl 4-dimethylaminobenzoate	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	OECD 405 Result: Not irritating
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	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.**Philippines OELs: Carcinogen category**

Not listed.

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

Fertility effects - Males and femalesPROPOXYLATED NEOPENTYL GLYCOL
DIACRYLATE

OECD 421

Result: Negative.

ReproductivityPROPOXYLATED NEOPENTYL GLYCOL
DIACRYLATE
DI(TRIMETHYLOLPROPANE) TETRAACRYLATE

OECD 421

Result: Negative.

OECD 422, (similar product)

Result: Negative.

Species: Rat

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

OECD414

Result: Negative.

Specific target organ toxicity - single exposure Not classified.**Specific target organ toxicity - repeated exposure** Not classified.

PROPOXYLATED NEOPENTYL GLYCOL DIACRYLATE

OECD 407

Result: Negative.

Species: Rat

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

Result: Negative.

Species: Rat

Test Duration: 90 d

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**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

Bioconcentration factor

DI(TRIMETHYLOLPROPANE) TETRAACRYLATE	388 % v/w
Phenylbis(2,4,6-trimethylbenzoyl) phosphine-oxide	< 5

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 instructions**

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.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information**ADR**

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, (4-tert-butylcyclohexyl) Prop-2-enoate)
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 name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, (4-tert-butylcyclohexyl) Prop-2-enoate)
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

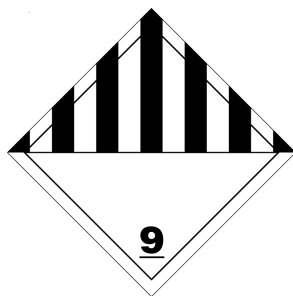
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, (4-tert-butylcyclohexyl) Prop-2-enoate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III

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.

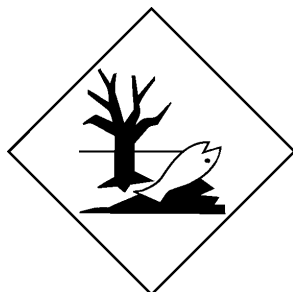
IMDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI(TRIMETHYLOLPROPANE) TETRAACRYLATE, (4-tert-butylcyclohexyl) Prop-2-enoate), 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.

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

CCO Chemical List

Not regulated.

Controlled Precursors & Essential Chemicals (Comprehensive Dangerous Drugs Act of 2002 (Republic Act 9165), as amended thru Dangerous Drugs Board Regulations)

Not listed.

Ozone Depleting Substances (ODS) (Chemical Control Order, DENR Admin. Order No. 2013-25)

Not regulated.

Priority Chemical List (PCL) (DENR Administrative Order No. 98-58)

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Issue date	11-October-2019
Revision date	10-June-2020
Version No.	3.0
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.
Revision information	Product and Company Identification: Physical States Hazard(s) identification: Disposal Hazard(s) identification: Storage Composition / Information on Ingredients: Disclosure Overrides Handling and storage: Precautions for safe handling Handling and storage: Specific uses Physical & Chemical Properties: Multiple Properties Toxicological information: Inhalation Toxicological information: Skin contact Material Attributes & Uses; Experimental Data: Product Uses HazReg Data: Pacific Rim