SAFETY DATA SHEET

T2	(MED)	UV	Clear
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Section 1. Identification

Product no.	:	1460107
Product name	:	T2 (Med) UV Clear
	:	Printing inks, coatings, toners, and related materials
Relevant identified uses of the substance or mixture and uses advised against		
Identified uses		

Uses advised against	:	Not available
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Manufacturer	:	Inkcups Now, Corp Ink Department 310 Andover Street Danvers, MA 01923 United States +1 978 646 8980
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Supplier's details	:	Inkcups Now, Corp
		Ink Department 310
		Andover Street
		Danvers, MA 01923
		United States
		+1 978 646 8980

24 Hour Emergency Phone	:	800.535.5053 INFOTRAC 24 Hour Spill and Emergency (+1 352 323 3500 outside of North America)
SDS Email Information	:	compliance@inkcups.com

Section 2. Hazards identification

Classification of the substance or	:	ACUTE TOXICITY (oral) - Category 4
mixture		SKIN CORROSION/IRRITATION - Category 2
		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1
		TOXIC TO REPRODUCTION (Fertility) - Category 2
		TOXIC TO REPRODUCTION (Unborn child) - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
		, , ,

GHS label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

General	:	Read label before use.	
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	
Response			
Storage	:		
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Supplemental label elements	:	None known.	
Hazards not otherwise classified	:	None known.	

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture

Ingredient name	%	CAS number
1-Vinylhexahydro-2H-azepin-2-one	25 - 35	2235-00-9
Multi-functional Monomer	15 - 20	
Amine Modified Acrylate Oligomer	12.5 - 15	

Diacrylate Monomer	10 - 12.5	
Monofunctional Monomer	7 - 10	
Photoinitiator	7 - 10	
MSD1845 2-Propenoic acid, phenylmethyl ester	5 - 7	2495-35-4
Triacrylate Monomer	0.2 - 1	

Any concentration shown as a range is to protect confidentiality or is due to batch variation	n.
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Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.\'20 If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	Exposure to decomposition products may cause a health hazard.
		Serious effects may be delayed following exposure.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed. Irritating to mouth, throat and stomach.

Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering
	redness
Inhalation	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations

<u>Indication of immediate medical attention and special treatment needed, if necessary</u>

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms
		may be delayed. The exposed person may need to be kept under
		medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

Protection of first-aiders	:	No action shall be taken involving any personal risk or without
		suitable training. It may be dangerous to the person providing aid to
		give mouth-to-mouth resuscitation. Wash contaminated clothing
		thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
		T C '01 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Specific hazards arising from the	:	In a fire or if heated, a pressure increase will occur and the container
chemical		may burst.

Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.\'20 Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.\20 Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations.\20 Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use
		process enclosures, local exhaust ventilation or other engineering
		controls to keep worker exposure to airborne contaminants below
		any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be
		checked to ensure they comply with the requirements of
		environmental protection legislation.\'20 In some cases, fume
		scrubbers, filters or engineering modifications to the process
		equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.\'20 Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.\'20 Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	liquid
Color	:	Pink
Odor	:	Not available.
Odor threshold	:	Not available.
pН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not Measured. Material is not expected to flash.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.

Lower and upper explosive	:	: Lower: Not available.	
(flammable) limits		Upper: Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Density	:	1.017 g/cm3	
Relative density	:	1.02	
Solubility	:	Not available.	
Partition coefficient: n-	:	Not available.	
octanol/water			
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Dynamic: Not available.	
		Kinematic: Not available.	

Volatile.	:	0.63 %(m) Weight %
		0.64 %(V) Volume %
VOC %	:	0.01 %(m) Weight %
		0.01 %(V) Volume %
Coating VOC	:	0 lb/gal
		0 g/l

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will
		not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous
products		decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Multi-functional Monomer				
	LD50 Oral	Rat	4,890 mg/kg	-
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
			·	
Diacrylate Monomer				
•				
	LD50 Oral	Rat	5 000 mg/kg	_

DI					
Photoinitiator					
LD	50 Ora	l	Rat	5,000 mg/kg	-
Conclusion/Summary	:	Not a	available.		
Irritation/Corrosion					
Complete sign / Superior a serv					
Conclusion/Summary Skin	:	Not a	available.		
Eyes	:		avanable. available.		
Respiratory			available.		
respiratory	•	1101	a randore.		
Conclusion/Summary Skin	:				
Respiratory	:		available. available.		
Respiratory Mutagenicity					
		Not a			
Mutagenicity	:	Not a	available.		
Mutagenicity Conclusion/Summary	:	Not a	available.		
Mutagenicity Conclusion/Summary Carcinogenicity	:	Not a	available. available.		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	Category 3		Respiratory tract irritation

: Not available.

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Teratogenicity

Conclusion/Summary

Not available.

Information on the likely routes of	:	Not available.
exposure		

Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Exposure to decomposition products may cause a health hazard.
		Serious effects may be delayed following exposure.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the p	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Long term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

Conclusion/Summary	:	Not available.	
General	:	Causes damage to organs through prolonged or repeated exposure.	
		Once sensitized, a severe allergic reaction may occur when	
		subsequently exposed to very low levels.	
Carcinogenicity	:	No known significant effects or critical hazards.	
Mutagenicity	:	No known significant effects or critical hazards.	
Teratogenicity	:	Suspected of damaging the unborn child.	

Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates	
Not available.	

Section 12. Ecological information

Toxicity

Conclusion/Summary	Not available
Conclusion/Summary	Not available.

Persistence and degradability

Mobility in soil

Soil/water partition coefficient	:	Not available.		
(KOC)				
Other adverse effects	:	No known significant effects or critical hazards.		

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible.\'20 Disposal of this product, solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.\'20 Waste should not be disposed of untreated to the sewer unless fully compliant wit the requirements of all authorities with jurisdiction. Waste packagin should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling	
		when recycling is not feasible. This material and its container must
		emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid
		dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory	Proper shipping	UN -	Hazard	Packing	Additional	
information	name	Number	classification	group	information	

IATA	Environmenta Hazardous Substance, Li n.o.s. (Acryla	quid,	UN3082	9	III	
IMDG	Environmenta Hazardous Substance, Li n.o.s. (Acryla Marine Pollut	quid,	UN3082	9	Ш	
DOT Classification	Not classified	ł.			-	
Mexico Classification	Not classified	l.			-	
TDG Class	Not classified	1.			-	
Clean Air Act Section Hazardous Air Polluta		: Li	isted			
SARA 302/304 Not applicable.		NI				
SARA 304 RQ SARA 311/312		: No	ot applicabl	e.		
				cute) health haza onic) health haza		
Composition/information	n on ingredien	<u>ts</u>				
Name	0	%			Classification	
1-Vinylhexahydro-2H-	azepin-2-	25 - 35			AH, CH	

Name	%	Classification					
1-Vinylhexahydro-2H-azepin-2-	25 - 35	AH, CH					
one							
Multi-functional Monomer	15 - 20	312 DELAY HLTH312 IMMED					
		HLTH312 REACTIVEAH					
·							
Amine Modified Acrylate	12.5 - 15	312 DELAY HLTH312 IMMED					
Oligomer		HLTH312 REACTIVEAH					
Diacrylate Monomer	10 - 12.5	AH					
_							

Monofunctional Monomer	7 - 10	312 DELAY HLTH312	
		REACTIVE312 IMMED	
		HLTHAH	
Photoinitiator	7 - 10	312 DELAY HLTH312 IMMED	
		HLTHCH	
MSD1845 2-Propenoic acid,	5 - 7	AH	
phenylmethyl ester			
Triacrylate Monomer	0.2 - 1	312 DELAY HLTH312	
-		REACTIVE312 IMMED HLTHAH	

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Monofunctional Monomer		7 - 10
Supplier notification	Monofunctional Monomer		7 - 10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

International regulations

International lists	:	Australia inventory (AICS): Not determined. Canada inventory		
		(DSL/NDSL): Not determined.		
		Europe inventory: Not determined.		
		Japan inventory: Not determined.		
		China inventory (IECSC): Not determined.		
		Korea inventory: Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined.		
		Philippines inventory (PICCS): Not determined.		
		Canada inventory (DSL/NDSL): Not determined.		

Section 16. Other information

History

Date of printing	:	11/17/2016
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Date of previous issue	:	02/15/2016
Version	:	2.9
Prepared by	:	compliance@inkcups.com
References	:	Not available.

Notice to reader			

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