

Sun Chemical Corporation
104 Heritage Drive

Pataskala
USA

OH
43062



SEAWAY PRINTING CO., INC.
1609 WESTERN AVENUE
GREEN BAY, WI 54303
USA

July 24, 2023

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SAFETY DATA SHEET

Section 1. Identification

Product code : JA29182TF/CD02
GHS product identifier : LED 2D KCSTD PC CYAN

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Printing ink; Printing ink related material; Colorant

Manufacturer / Distributor : Sun Chemical Corporation
North American Inks
135 West Lake Street
Northlake, IL 60164
US: +1 708 236 3798

Emergency telephone number (with hours of operation) : +1 (800) 424-9300 (U.S.) (24 hours)
+1 (703) 527-3887 (International) (24 hours)

Other information : +1 708 236 3798

e-mail address of person responsible for this SDS : regulatory.affairs@sunchemical.com

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 1B

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May cause an allergic skin reaction.
Causes serious eye damage.
May damage fertility or the unborn child.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.

Response : IF exposed or concerned: Get medical advice or attention. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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 or doctor.

Storage : Store locked up.

Section 2. Hazards identification

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

Ingredient name	CAS number	%
Polyester Resin	proprietary	20 - 25
Urethane Acrylate Oligomer	proprietary	10 - 20
Propoxylated Glyceryl Triacrylate	52408-84-1	5 - 10
2-Propenoic acid, reaction products with pentaerythritol	3524-68-3;4986-89-4	5 - 10
Substituted Hetrocyclic Propanone	71868-10-5	5 - 10
2-Isopropylthioxanthone	5495-84-1	2.5 - 5
Acrylated Oligomer	Proprietary	1 - 2.5
Photoinitiator	162881-26-7	< 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Remove contact lenses, if present and easy to do. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

- 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.

Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 dry chemical, CO₂, water spray (fog) or foam.

- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
halogenated compounds
metal oxide/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** : Exclude sources of ignition and ventilate the area. Do not breathe vapor or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialized 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. 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** : Use only in well-ventilated areas. Keep container tightly closed. Keep away from heat, sparks and flame. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Always keep in containers made from the same material as the original one. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Avoid exposure during pregnancy. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Comply with the health and safety at work laws.
- 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. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition - No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Do not reuse container. See Section 10 for incompatible materials before handling or use.

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. 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. 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.

Section 8. Exposure controls/personal protection

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	: In case of inadequate ventilation wear respiratory protection. 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. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Blue.
Odor	: Characteristic.
Odor threshold	: Not applicable.
pH	: Not tested
Melting point	: Not available.
Boiling point	: Lowest known value: 132°C (273°F)
Flash point	: Lowest known value: >93.3°C (200°F)
Evaporation rate	: Highest known value: <1 (Propoxylated Glyceryl Triacrylate) Weighted average: 0.9 compared with butyl acetate
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not tested
Vapor pressure	: Not available.
Vapor density	: Not tested
Density	: 1.186 g/cm ³ (9.894 lbs/gal)
Solubility	: Not tested
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not applicable.
Viscosity	: Not tested

VOC

VOC % by W/W	: 0.1
VOC % by V/V	: 0.1
VOC Lbs./Gallon	: 0.0
VOC Lbs./Gallon without Water and exempt solvents	: 0.0

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.

Section 10. Stability and reactivity

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acrylated Oligomer	LD50 Oral	Rat	6200 mg/kg	-

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Irritation/Corrosion

The product has not been tested.

Sensitization

The product has not been tested.

Mutagenicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Carcinogenicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Substituted Hetrocyclic Propanone	-	Positive	-	Rat - Male, Female	Oral	-

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Substituted Hetrocyclic Propanone	Positive - Oral	Rat - Male, Female	-	-

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acrylated Oligomer	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.
 Inhalation : No known significant effects or critical hazards.
 Skin contact : May cause an allergic skin reaction.
 Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
 pain
 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:
 pain or irritation
 redness
 blistering may occur
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
 Ingestion : Adverse symptoms may include the following:
 stomach pains
 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

General : 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 : May damage the unborn child.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : May damage fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3130.39 mg/kg

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Substituted Hetrocyclic Propanone	LC50 9 mg/l	Fish	96 hours

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Persistence and degradability

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Substituted Hetrocyclic Propanone	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Propoxylated Glyceryl Triacrylate	2.52	-	low
2-Propenoic acid, reaction products with pentaerythritol	1.45	-	low
Substituted Hetrocyclic Propanone	3.09	-	low
Acrylated Oligomer	2	-	low
Photoinitiator	5.77	-	high

Mobility in soil




Soil/water partition coefficient (K_{oc}) : Not available.

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. Disposal of this product, solutions and any by-products 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. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging 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 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

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number			UN3082	UN3082	UN3082
UN proper shipping name			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Propenoic acid, reaction products with pentaerythritol, Substituted Hetrocyclic Propanone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Propenoic acid, reaction products with pentaerythritol, Substituted Hetrocyclic Propanone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Propenoic acid, reaction products with pentaerythritol, Substituted Hetrocyclic Propanone)
Transport hazard class(es)	Not regulated.	Not regulated.	9 	9 	9 
Packing group	-	-	III	III	III
Environmental hazards	No.	No.	Yes.	Yes.	Yes.
Additional information	-	-	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

TSCA 8(b) inventory : Listed

U.S. Federal regulations : **TSCA 8(a) PAIR:** Acrylated Oligomer; 4-Methoxyphenol
Clean Water Act (CWA) 307: C.I. Pigment Blue 15; toluene; Phenol
Clean Water Act (CWA) 311: toluene; Phenol; cyclohexane

SARA 313

	Product name	CAS number	%
Supplier notification	None identified.		

Toxics in Packaging (CONEG) : In compliance.

State regulations

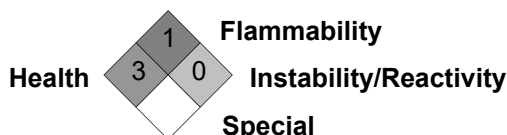
Massachusetts : The following components are listed: Paraffin Wax (8002-74-2)

Section 15. Regulatory information

- New York** :
- New Jersey** : The following components are listed: C.I. Pigment Blue 15 (147-14-8), Paraffin Wax (8002-74-2)
- Pennsylvania** : The following components are listed: C.I. Pigment Blue 15 (147-14-8), Paraffin Wax (8002-74-2)
- Canada inventory** : All components are listed or exempted.
- International regulations**
- International lists** :
- Australia inventory (AIRC)**: All components are listed or exempted.
 - China inventory (IECSC)**: All components are listed or exempted.
 - Japan inventory (CSCL)**: At least one component is not listed.
 - Korea inventory (KECI)**: All components are listed or exempted.
 - New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
 - Philippines inventory (PICCS)**: At least one component is not listed.
 - Taiwan Chemical Substances Inventory (TCSI)**: All components are listed or exempted.
 - Turkey inventory**: At least one component is not listed.
 - Europe Inventory**: Please contact your supplier to get the information.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of revision : 3/21/2023

Date of previous issue : 3/16/2023

Version : 0.02

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

JA29182TF

VOLATILE CHEMICALS REPORT

US EPA
Designate

A. Product Density:

1.) 1.186 g/cm³ (9.894 lbs/gal) =(Dc)s

B. Nonvolatile Content:

1.) 99.9 Weight percent of nonvolatiles in product =(Wn)s
 2.) 100.0 Volume percent of nonvolatiles in product =(Vn)s
 3.) 9.88 Density, lb nonvolatiles/gal nonvolatiles =(Dn)s

C. Volatiles:

1.) 0.1 Weight percent of total volatiles in product =(Wv)s
 2.) 8.3 Density, lb volatiles/gal volatiles =(Dv)s

D. Water Content:

1.) 0.0 Weight percent of water in product =(Ww)s
 2.) 0.0 Volume percent of water in product =(Vw)s

E. Volatile Organic Compounds, (VOCs):

1.) 0.1 Weight percent of organic volatiles in product =(Wo)s
 2.) 0.1 Volume percent of organic volatiles in product =(Vo)s
 3.) 9.22 Density, lb organic volatiles/gal organic volatiles =(Do)s
 4.) 111.1 Weight percent of VOCs in total volatiles =(Wo)v
 5.) 100.0 Volume percent of VOCs in total volatiles =(Vo)v

F. VOC Content in Product Expressed in Other Terms:

1.) a.) 0.0 lb VOC / gal Product
 1.) b.) 1.19 grams VOC / liter Product
 2.) a.) 0.0 lb VOC / gal Product less water & exempt solvent
 2.) b.) 1.19 grams VOC / liter Product less water & exempt solvent
 2.) c.) 0.1 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.
 3.) 0.0 lb VOC / gal total nonvolatiles

G. Volatiles

Chemical name	CAS number	% by weight	Density (lb/gal)
<hr/>			
Hazardous Air Pollutants VOCs (HAPs)			
acrylic acid	79-10-7	0.06	8.77
toluene	108-88-3	0.02	7.26
Other VOCs (Non-HAPs)			
VOC's present at <0.10% (cumulative)		0.01	8.05

NOTE:

The US EPA definition of VOC does not include water, ammonia or other exempt substances. The VOC values reported are based on current formulations and supplier data.

This report also serves as a Certified Product Data Sheet (CPDS) as defined by 40 CFR 63 National Emissions Standard for HAPS, Subpart KK for the Printing Industry