



SAFETY DATA SHEET

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1. IDENTIFICATION

Product identifier

Product Name: QUAKERCOAT® 038 UV CLEAR
Product code: 042982-03UA

Other means of identification

Synonyms No information available

Application

Recommended Use Coating Fluid
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerhoughton.com

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010
(Within US only) Outside of US call (703) 527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1B

Label Elements

Emergency Overview

DANGER**Hazard Statements**

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

**Appearance** Milky white**Physical State** Liquid**Odor** Vinegar-like**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment is urgent (see first aid on this label)

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.

IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

Toxic to aquatic life.

Unknown acute toxicity

0.05% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Saturated Polyester	Proprietary	40 - 50%
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	66492-51-1	15 - 20%
2-Hydroxy-2-methylpropiophenone	7473-98-5	1 - 5%
Bis (2-methacryloyloxyethyl) phosphate	32435-46-4	1 - 5%
Talc	14807-96-6	1 - 5%
Methacrylate	Proprietary	1 - 5%
Trimethylolpropane triacrylate	15625-89-5	<1%
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. Consult a physician.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact:	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.
Note to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or `alcohol` foam. Do not use water with full jet.
Specific hazards:	Do not allow material to contaminate ground water system.
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Explosion data	Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Use personal protective equipment. Wash thoroughly after handling.
Environmental precautions:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not breathe vapors/dust. Wear personal protective equipment. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container.

Incompatible products: See Section 10, Materials to avoid

Safe storage temperature: 40 - 100 ° F

Shelf life: 12 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Talc	2 mg/m ³ (TWA)	None known	2 mg/m ³ (TWA)
Silicon dioxide	None known	50 µg/m ³	6 mg/m ³ (TWA)
Phosphoric Acid	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)	1 mg/m ³	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

General: Provide easy access to eyewash/safety shower facilities.

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, respiratory protection may be required. Contact your site safety representative for proper respirator selection.

Eye protection: Wear safety glasses with side shields (or goggles)

Hand protection: Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your safety department for specific recommendations

Skin and body protection: Wear protective clothing and appropriate footwear necessary for the risk of exposure. Contact your health and safety department for specific recommendations

Hygiene measures: Handle in accordance with sound chemical hygiene practices. Wear the appropriate PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke while using chemicals.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Milky white
Odor	Vinegar-like
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	> 100 °C / 212 °F
Flash Point	99 °C / 210 °F
Method	Cleveland Open Cup (COC)
Evaporation rate	No information available
Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	0.01
VOC Content Product (g/L)	0.70
VOC less water and exempt (lb/gal)	0.01
VOC less water and exempt (g/L)	0.70
Solids (% w/w):	99.99
Solids (% v/v):	99.99
Volatiles (% by volume) :	99.99
Vapor pressure	No information available
Vapor density	No information available

Specific Gravity (g/cc, 15 °C)	1.166
Bulk Density (lb/gal, 15 C)	9.73
Water Solubility	Insoluble in water
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	38 sec #2 Sig ZANH Cup
Dynamic viscosity	1300 cP
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Loss of dissolved air or polymerization inhibitor. Heat, flames and sparks. Polymerization occurs when exposed to white light, ultraviolet light or heat. Do not freeze.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides.
Hazardous Polymerization:	No information available.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin Contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Saturated Polyester	= 4600 mg/kg (Rat) Oral LD50 Rat 4600 mg/kg (Source: NLM_CIP)	> 2 g/kg (Rabbit)	-
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	-	-	-
2-Hydroxy-2-methylpropiophenone	= 1694 mg/kg (Rat) Oral LD50 Rat 1694 mg/kg (Source: NLM_CIP)	-	-
Bis (2-methacryloyloxyethyl) phosphate	-	-	-
Talc	-	-	-
Methacrylate	-	-	-
Trimethylolpropane triacrylate	= 5190 µL/kg (Rat) = 5190 mg/kg (Rat) Oral LD50 Rat 5190 mg/kg (Source: HSDB)	= 5000 mg/kg (Rabbit) Dermal LD50 Rabbit 5000 mg/kg (Source: NLM_CIP)	-
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Occupational health effects due to inhalation of mineral dusts incorporating crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc) graphite or coal unlikely to occur from exposure to this product.

Chemical Name	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Saturated Polyester	Not listed	Not listed	Not listed
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	Not listed	Not listed	Not listed
2-Hydroxy-2-methylpropiophenone	Not listed	Not listed	Not listed
Bis (2-methacryloyloxyethyl) phosphate	Not listed	Not listed	Not listed
Talc	Group 2B Group 3	Not listed	Present
Methacrylate	Not listed	Not listed	Not listed
Trimethylolpropane triacrylate	Group 2B (Technical grade only)	Not listed	Present
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not listed	Not listed	Not listed

Sensitization

Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

Mutagenic effects:

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

Teratogenic

No information available.

**Specific target organ systemic
toxicity (single exposure)**

No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

Additional information on toxicological effects

No information available

12. ECOLOGICAL INFORMATION

Chemical Name	Toxicity to Fish	Daphnia Magna (Water Flea)	Toxicity to Algae
Saturated Polyester	No data	No data	No data
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	4: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	No data	No data
2-Hydroxy-2-methylpropiophenone	No data	No data	No data
Bis (2-methacryloyloxyethyl) phosphate	No data	No data	No data
Talc	100: 96 h Brachydanio rerio g/L LC50 semi-static	No data	No data
Methacrylate	No data	No data	No data
Trimethylolpropane triacrylate	No data	No data	No data
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data	No data	No data

25.63% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Octanol/water partition coefficient
Saturated Polyester	-
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	-
2-Hydroxy-2-methylpropiophenone	-
Bis (2-methacryloyloxyethyl) phosphate	-
Talc	-
Methacrylate	-
Trimethylolpropane triacrylate	-
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused Waste disposal must be in accordance with appropriate Federal, State, and local

products: regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not regulated

TDG (CANADA):

Proper shipping name: Not regulated

IMDG/IMO:

UN nr: UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
 (2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester)
Class: 9
Packing group: III
Limited quantity: 1 L

IATA/ICAO:

UN nr: UN3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
 (2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester)
Hazard Class: 9
Packing group: III
Maximum quantity for cargo only: 450 L
Maximum quantity for passenger: 450 L
Limited quantity: 30 kg

15. REGULATORY INFORMATION

Federal Regulations

CERCLA/SARA Information:

SARA (311, 312) hazard class: See GHS Classification in Section 2 for hazard class information.

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Saturated Polyester	Not listed	Not listed	Not listed
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	Not listed	Not listed	Not listed
2-Hydroxy-2-methylpropiophenone	Not listed	Not listed	Not listed

Bis (2-methacryloyloxyethyl) phosphate	Not listed	Not listed	Not listed
Talc	Not listed	Not listed	Not listed
Methacrylate	Not listed	Not listed	Not listed
Trimethylolpropane triacrylate	Not listed	Not listed	Not listed
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Saturated Polyester	Not listed	Not listed	Not listed	Not listed
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	Not listed	Not listed	Not listed	Not listed
2-Hydroxy-2-methylpropiophenone	Not listed	Not listed	Not listed	Not listed
Bis (2-methacryloyloxyethyl) phosphate	Not listed	Not listed	Not listed	Not listed
Talc	Not listed	Not listed	Not listed	Not listed
Methacrylate	Not listed	Not listed	Not listed	Not listed
Trimethylolpropane triacrylate	Not listed	Not listed	Not listed	Not listed
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Saturated Polyester	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2-Hydroxy-2-methylpropiophenone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Bis (2-methacryloyloxyethyl) phosphate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Talc	Not Listed	Present	Not Listed	1773 4203	Present
Methacrylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Trimethylolpropane triacrylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

California Proposition 65 Status: May contain trace amounts of listed chemicals: benzophenone.

CANADIAN REGULATIONS:

Chemical Name	CEPA Schedule I	Challenge Substances
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Saturated Polyester	Not listed	Not listed
2-Propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	Not listed	Not listed
2-Hydroxy-2-methylpropiophenone	Not listed	Not listed
Bis (2-methacryloyloxyethyl) phosphate	Not listed	Not listed
Talc	Not listed	Not listed
Methacrylate	Not listed	Not listed
Trimethylolpropane triacrylate	Not listed	Not listed
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not listed	Not listed

INVENTORY STATUS:

United States TSCA Inventory:

This product complies with TSCA

Canada DSL/NDSL Inventory List

All components are either on the DSL or the NDSL

16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients.
the data sheet:

Prepared by:

Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Revision Date:

09/07/2019

Reason for revision:

New Logo.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet