

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Name : AquaVue® KV-630 Additive
Product code : KV-630

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Additive

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ICD High Performance Coatings + Chemistries
7350 S. Union Ridge Parkway
Ridgefield, WA 98642
United States of America

Tel: +1 (360) 546 2286
Fax: +1 (360) 546 2287

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UNITED STATES OF AMERICA	ICD High Performance Coatings + Chemistries	7350 S. Union Ridge Parkway Ridgefield, WA 98642	: +1 (360) 546 2286

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

H318 Eye damage : Category 1

Full text of H-phrases mentioned in this Section: see Section 16

2.2. Label elements

Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictograms :



Signal word : Danger
Hazard statements : Causes serious eye damage
Precautionary statements : **Prevention:**

Wear eye/face protection

Response:

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing. Immediately call a poison center/doctor

Store away from incompatible materials

Disposal:

Dispose of waste and residues in accordance with local authority requirements



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2.3. Other hazards

Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 ml.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Hazardous ingredients:

Name	CAS No.	Concentration (Wt %)
Glycidoxypropyltrimethoxysilane	2530-83-8	< 100%
Methanol	67-56-1	< 0.2%

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists
- First-aid measures after 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 immediately.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Liquid or vapors can react with moisture in the eye to form methanol, an alcohol which can cause temporary or permanent blindness depending on exposure.
Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 ml. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.

4.3. Indication of any immediate medical attention and special treatment needed

This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media : Water

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : During fire, gases hazardous to health may be formed. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 ° F (150 ° C) and above, in atmospheres which contain oxygen.
Reacts with water and moisture in air liberating methanol.



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Hazardous combustion products : Carbon oxides. Silicon oxides. Formaldehyde.

5.3. Advice for firefighters

Firefighting instructions : In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

Protection during firefighting : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not breathe mist or vapor. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. See Section 8 of the SDS for Personal Protective Equipment.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

The product is immiscible with water and will sediment in water systems.

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

6.4. Reference to other sections

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Local/Total ventilation : Use only with adequate ventilation.

Precautions for safe handling : Use with adequate ventilation. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash Skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry, well-ventilated place. Protect from moisture. Keep from freezing. Prevent contact with water or air and store in air-tight containers in vacuum or in inert atmosphere. Never leave unsealed.

Incompatible materials : Strong oxidizing agents, acids, bases

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace control parameters:

Ingredients	CAS-No.	Type (Form of exposure)	Value	Basis
Methanol	67-56-1	PEL	260 mg/m ³	OSHA Z-1
			200 ppm	
		STEL	250 ppm	ACGIH
			200 ppm	ACGIH
		TWA	325 mg/m ³	NIOSH
			250 ppm	
TWA	260 mg/m ³			
			200 ppm	



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Biological limit values

Ingredients	CAS-No.	Value	Determinant	Specimen
Methanol	67-56-1	15 mg/ml	Methanol	Urine

Exposure guidelines

Methanol (67-56-1)

California OELs: Skin designation : Can be absorbed through the skin

Minnesota Haz Subs: Skin designation : Skin designation applies

Tennessee OELs: Skin designation : Can be absorbed through the skin

ACGIH Threshold Limit Values: Skin designation : Can be absorbed through the skin

NIOSH: Pocket Guide to Chemical Hazards : Can be absorbed through the skin

8.2. Exposure controls

Appropriate engineering controls : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

This product may be capable of generating 0.1 ppm or greater formaldehyde vapors under certain use conditions. According to OSHA 29 CFR 1910.1048, formaldehyde vapors may be considered hazardous if workplace airborne concentrations exceed 0.1 ppm.

Personal protective equipment : Protective clothing. Protective goggles or safety glasses. Gloves.

Hand protection : Wear chemical-resistant, impervious gloves.

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

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), a NIOSH approved respirator must be worn.

Other information : 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Liquid
Colour	: Clear water-white
Odour	: Ether
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: <1
Melting point	: < -94 °F (< -70 °C)
Freezing point	: < -94 °F (< -70 °C)
Boiling point	: 554 °F (290 °C) (760 mm)
Flash point	: 230.0 °F (110.0 °C) Method: closed cup
Auto-ignition temperature	: No data available



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Decomposition temperature	: No data available
Flammability (solid, gas)	: Non-flammable
Vapour pressure	: < 1 mm Hg (20 °C) < 1.33 hPa (20 °C)
Relative vapour density at 20 °C	: > 1 (25 °C / 77 °F) (Air = 1)
Relative density	: 1.069 (25 °C)
Solubility	: Insoluble (in water).
Log Pow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidising properties	: This mixture is not classified as oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Material reacts slowly with water.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with water and moisture in air liberating methanol.

10.4. Conditions to avoid

Contact with incompatible materials. Avoid temperatures above 300 °C.

10.5. Incompatible materials

Water, moisture. Strong oxidizing agents, acids, bases

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Methylpolysiloxanes can generate formaldehyde at approximately 300 degrees Fahrenheit (150 °C) and above, in atmospheres which contain oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Skin contact. Ingestion. Eye contact.

Acute toxicity : Not classified based on available data.

Ingredient	Remarks
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Methanol	LC50 Inhalation - Rat 22500 ppm, 8hrs LD50 Oral - Rat 6200 mg/kg
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Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation : Causes serious eye damage

Skin sensitization : Due to lack of data the classification is not possible.

Respiratory sensitization : Due to lack of data the classification is not possible.

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

Carcinogenicity : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

Reproductive toxicity : Due to lack of data the classification is not possible.

Specific target organ toxicity (single exposure) : Due to lack of data the classification is not possible.



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Specific target organ toxicity (repeated exposure)	: Due to lack of data the classification is not possible.
Repeated dose toxicity	: Due to lack of data the classification is not possible.
Aspiration hazard	: Due to lack of data the classification is not possible.
Potential adverse human health effects and symptoms	: Due to lack of data the classification is not possible.
Further Information	: None

SECTION 12: Ecological information

12.1. Toxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

No data available for this product.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal instructions	: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. 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.
Hazardous waste code	: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	: Dispose of in accordance with local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not dangerous goods in terms of transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable



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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Domestic regulation

49 CFR

Not dangerous according to transport regulations

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CERCLA Reportable Quantity

Ingredients	CAS-No	
Methanol	67-56-1	Listed

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methanol (CAS 67-56-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated

15.1.2. National regulations

US State Right To Know Regulations

Ingredient	CAS No.
Glycidoxypropyltrimethoxysilane	2530-83-8
Methanol	67-56-1

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methanol (CAS 67-56-1)

The ingredients of this product are reported in the following inventories:

REACH	: All ingredients (pre)registered or exempt.
TSCA	: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
DSL	: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or are exempt from listing on the Canadian Domestic Substances List (DSL).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Internal technical data, data from raw material SDS's, and OECD eChem Portal search results.
Other information	: None.
Full text of H- phrases:	
H318	Causes serious eye damage

SDS US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.