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

1.1 Product identifier

Trade name: QuickBond IF Bonding Agent

Component substances: Refer to Section 3: Composition/information on ingredients

Other means of identification: 90785

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

Recommended use: Primer

Restrictions on use: For industrial or professional use only. Not for consumer use.

1.3 Details of the supplier of the safety data sheet

Non-EU manufacturer: Hawk Research Laboratories, LLC

Address: 7150 Capitol Drive, Wheeling, IL 60090 USA

Telephone: +1 (630) 227-0050

Email: info@hawklabs.com

1.4 Emergency telephone number

ChemTel: +1 (813) 248-0585
(Contract number MIS0002644)

2 Hazard(s) identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard(s): Flam. Liq. 2
Eye Dam. 1
STOT SE 3 (central nervous system)

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]:

Pictogram(s):

Signal Word: Danger

Hazard Statement(s):

H225 Highly flammable liquid and vapour
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness

Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P370 + P378 In case of fire: Use carbon dioxide (CO_2), foam, or dry chemical to extinguish.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

PBT / vPvB Assessment
This product contains no known substances at a concentration of greater than or equal to 0.1% by weight classified as PBT / vPvB according to REACH Annex XIII criteria.

Other Hazards
not applicable (N/A)

3 Composition / information on ingredients

3.1 Substances
not applicable (N/A)

3.2 Mixtures

Component	Hazard classification	Wt. %
Propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 REACH Registration No.: no information available	Flam. Liquid 2 Eye Irrit. 2 STOT – SE 3	70-90

4 First aid measures

4.1 Description of first aid measures
IF IN EYES: Rinse immediately with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a poison center or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell after exposure.

IF ON SKIN: Wash immediately with plenty of water or use shower. Get medical attention if irritation or rash occurs. Take off contaminated clothing and wash it before reuse.

IF SWALLOWED: Do not induce vomiting. If vomiting occurs naturally, have person lean forward to reduce the risk of aspiration. Immediately call a poison center or doctor.

4.2 Most important symptoms and effects, both acute and delayed

EYES	Causes serious eye damage.
INHALATION	Inhalation of vapours may cause drowsiness or dizziness.
SKIN	May cause skin irritation.
INGESTION	May be harmful if swallowed.
CHRONIC EFFECTS	no information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: no information available

5 Firefighting measures

5.1 Extinguishing media

Suitable	Use carbon dioxide (CO_2), foam, or dry chemical to extinguish fire.
Unsuitable	Do not use high volume water jet as it may scatter and spread the fire.

5.2 Specific hazards arising from the substance or mixture

Highly flammable liquid and vapour. Containers may burst or explode in fire conditions.

Burning may produce hazardous combustion products, including carbon monoxide, carbon dioxide, oxides of silicon, and other toxic gases.

5.3 Advice for firefighters

Standard protective equipment for fighting chemical fires should be used, including self contained breathing apparatus (SCBA) and full fire fighting turn-out gear.

Caution: CO_2 used for extinguishing will displace air in confined spaces and may cause an oxygen deficient atmosphere.

Do not approach containers suspected to be hot. Cool endangered containers with water spray from a protected location. Move undamaged containers from the hazard area if it can be done safely.

Water used for extinguishing a fire must be prevented from draining into sewers or being released to the environment.

6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Remove all sources of ignition. Avoid breathing vapours. Avoid contact with eyes and skin. Wear personal protective equipment. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use only non-sparking tools and explosion-proof equipment for cleanup.

6.2 Environmental precautions

Do not allow substance to enter into surface water or drains. Contaminated water and soil must be retained and disposed of in accordance with all local, regional, national, and international regulations.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (*e.g.* sand, silica gel, acid binder, universal binder, sawdust). Sweep up and collect into sealable containers for disposal.

6.4 Reference to other sections

Refer to Section 8: Exposure Controls / Personal Protection and Section 13: Disposal Considerations.

7 Handling and storage

7.1 Precautions for safe handling

Highly flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed when not in use. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Avoid breathing vapours. Avoid contact with eyes and skin. Use only outdoors or with adequate ventilation. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Do not eat, drink, or use tobacco products while working. Wash hands thoroughly after handling and before eating, drinking, or using tobacco products. Take off contaminated clothing and wash it before reuse. Eye wash station and safety shower should be available in the immediate work area.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry, and well-ventilated place. Avoid exposure to heat or direct sunlight. Store locked up.

7.3 Specific end uses

no information available

8 Exposure controls / personal protection

8.1 Control parameters

Occupational Exposure Limits

Propan-2-ol	UK EH40 WEL	400 ppm (999 mg/m^3) TWA, 500 ppm (1 250 mg/m^3) STEL

Derived No Effect Levels (DNEL) according to Regulation (EC) No. 1907/2006

Propan-2-ol	Workers – Hazard via inhalation route Systemic Effects – 500 mg/m^3 (long term)
	Workers – Hazard via dermal route

	Systemic Effects – 888 mg/kg bw/day (long term)
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Workers – Hazard via inhalation route Systemic Effects – 70.5 mg/m³ (long term)
	Workers – Hazard via dermal route Systemic Effects – 10 mg/kg bw/day (long term)
	Workers – Hazard for the eyes Medium hazard (no threshold derived)

Predicted No Effect Concentrations (PNEC) according to Regulation (EC) No. 1907/2006

Propan-2-ol	Fresh water – 140.9 mg/L Marine water – 140.9 mg/L STP – 2 251 mg/L Sediment (fresh water) – 552 mg/kg sediment dw Sediment (marine water) – 552 mg/kg sediment dw Soil – 28 mg/kg soil dw Secondary poisoning (oral) – 160 mg/kg food
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Fresh water – 0.45 mg/L Marine water – 0.045 mg/L STP – 8.2 mg/L Sediment (fresh water) – 1.6 mg/kg sediment dw Sediment (marine water) – 0.16 mg/kg sediment dw Soil – 0.063 mg/kg soil dw

Recommended monitoring procedures
no information available

8.2 Exposure controls

Work in well ventilated areas or outdoors. The use of local exhaust ventilation is recommended to control air contaminants. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment. Use mechanical handling to reduce human contact with materials. Eye wash station and safety shower should be available in the immediate work area.

Use only appropriately classified electrical equipment and powered industrial trucks.

Eye/Face Protection	Wear chemical safety goggles.
Skin Protection	Wear protective gloves impervious to the conditions of use and chemical resistant protective clothing. The selected protective gloves have to satisfy the specifications of the EC directive 89/686/EEC and other applicable standards such as EN374. Suggested materials for protective gloves have not been determined for this product. Protective clothing (*e.g.* boots, gauntlets, apron, and/or full protective suit) should be selected based on the potential for exposure in the workplace. This recommendation is advisory only and should be

	evaluated by an industrial hygienist familiar with the specific situation of the intended use.
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level within control parameters, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation such as EN141.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	clear liquid
Odour	no information available
Odour threshold	no information available
pH value	no information available
Melting / freezing point	no information available
Initial boiling point / range	no information available
Flash point	no information available
Evaporation rate	no information available
Flammability	Flam. Liq. 2
Upper/lower flammability limits	no information available
Upper/lower explosivity limits	no information available
Vapour pressure	no information available
Vapour density	heavier than air
Relative density	no information available
Solubility in water	no information available
Partition coefficient (n-octanol/water)	no information available
Auto-ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Viscosity, kinematic	no information available
Explosive properties	non-explosive based on chemical composition
Oxidising properties	non-oxidising based on chemical composition

9.2 Other information

no information available

10 Stability and reactivity

10.1 Reactivity

no information available

10.2 Chemical stability

This mixture is expected to be stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Highly flammable liquid and vapour. Exothermic reactions of epoxysilane esters may occur, particularly in the presence of acid or base catalysts.

10.4 Conditions to avoid

Electrostatic discharge and ignition sources, accumulation of vapour

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

Burning or thermal decomposition may produce hazardous products, including carbon monoxide, carbon dioxide, oxides of silicon, and other toxic gases.

11 Toxicological information

11.1 Information on toxicological effects

Acute Toxicity (Oral)

Based on available data, the classification criteria are not met: $ATE_{mix} > 5\ 000$ mg/kg

Acute Toxicity (Inhalation)

Based on available data, the classification criteria are not met: ATE_{mix} (vapours) > 20 mg/L

Acute Toxicity (Dermal)

Based on available data, the classification criteria are not met: $ATE_{mix} > 5\ 000$ mg/kg

Skin Corrosion/Irritation

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Eye Damage/Irritation

Classified as Eye Dam. 1 based on available data for the components and the CLP methods for the classification of mixtures.

Respiratory Sensitization

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Skin Sensitization

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Carcinogenicity

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Reproductive Toxicity

Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Specific Target Organ Toxicity (Single Exposure)
Classified as STOT SE 3 (central nervous system) based on available data for the components and the CLP methods for the classification of mixtures.

Specific Target Organ Toxicity (Repeated/Prolonged Exposure)
Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Aspiration Hazard
data lacking

12 Ecological information

12.1 Toxicity

Acute toxicity
Based on available data for the components and the CLP methods for the classification of mixtures, the classification criteria are not met.

Chronic toxicity
Based on available data for the components and the CLP summation method for the classification of mixtures, the classification criteria are not met.

12.2 Persistence and degradability

Propan-2-ol	*Readily biodegradable based on available data.*
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	*Not readily biodegradable based on available data.*

12.3 Bioaccumulative potential

Propan-2-ol	*Not regarded as bioaccumulative based on available data.*
[3-(2,3-epoxypropoxy) propyl]trimethoxysilane	*Not regarded as bioaccumulative based on available data.*

12.4 Mobility in soil
no information available

12.5 Results of PBT and vPvB assessment
no information available

12.6 Other adverse effects
no information available

13 Disposal considerations

13.1 Waste treatment methods

Recover or recycle if possible. Offer surplus or non-recyclable material to a licensed waste disposal company. Do not dispose by flushing down drains or sewers. Dispose of contaminated packaging in the same manner as surplus product.

Disposal of product and contaminated packaging should be in accordance with applicable local, regional, national, and international laws and regulations. Local regulations may be more stringent than regional or national requirements.

14 Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

PAINT RELATED MATERIAL (ISOPROPANOL SOLUTION)

14.3 Transport hazard class(es)

3

14.4 Packing group

II

14.5 Environmental hazard(s)

This product is not classified as a Marine Pollutant as defined in IMDG 39-18 2.9.3.

14.6 Special precautions for user

no information available

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

no information available

15 Regulatory information

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

no information available

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this mixture.

16 Other information

16.1 Revision date

14 January 2021

16.2 Date of previous version

not applicable (N/A)

16.3 Reasons for revision

New experimental product

16.4 Additional information

not applicable (N/A)

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End of SDS