

Issue date: 10 September 2020
Revision: 4
Supersedes/Cancel: 08 September 2020

SAFETY DATA SHEET



IPA/DI Pre-Saturated Wipes & Refills

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

1.1 Product identifier

Trade name: Isopropyl alcohol / Di Water (70:30) Pre-Saturated Wipes & Refills

Part Number: QTEK 3410, QTEK 3411, QTEK 3412, QTEK 3413, QTEK 3415, QTEK 3416, QTEK 3417

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

Use of the Substance/Mixture

Versatile, general purposed cleaner designed for use in production facilities.

1.3 Details of the supplier of the safety data sheet Company

QTEK Manufacturing Ltd.,
Unit 7,
Glenascaul Technology Park,
Oranmore,
Co. Galway,
Ireland.
Email: info@qtek.com

1.4 Emergency telephone number

Telephone Number: + (353) 91 745160

Fax Number: + (353) 91 751299

Hours of business (Monday to Friday):

0830 – 1730 hrs.

Closed Bank Holidays and Public Holidays

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards
Human health Eye Irrit.
Environment

Flam. Liq 2- H225
2A - H319, STOT SE 3 - H336
Not classified

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Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness

Classification (67/548/EEC, 1999/45/EC)

Highly flammable	R11: Highly flammable.
Irritant	R36: Irritating to eyes.
	R67: Vapours may cause drowsiness and dizziness

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : **DANGER**

Hazard statements :	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.

Precautionary statements : Prevention:

- P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
- P233 Keep container tightly closed.
- P271 Use only outdoors or in a well-ventilated area.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to a licence

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3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Registration number: 01-2119457558-25-0000 (IPA)

Name	Product Identifier	Reg. EU 1272/2008	%
propan-2-ol	CAS-No.: 67-63-0 EC No.: 200-661-7 REACH Reg No.: 01-2119457558-25-0000	Eye Irrit. 2A - H319 Flam. Liq 2- H225 STOT SE 3 - H336	70%

The full text for all hazard statements are displayed in section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

General first aid rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

Inhalation

If this product is Inhaled, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth with water. **DO NOT** induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head low and/or keep airway clear. Get medical attention.

Skin contact

Remove affected person from source of contamination Flush skin with soap and plenty of water for at least 15 minutes. Get medical aid if irritation develops or persists.

Eye contact

Avoid contaminating unaffected eye. Remove contact lenses if present and easy to do so. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

May cause drowsiness or dizziness.

Ingestion

May cause drowsiness or dizziness.

Skin contact

May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

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4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat symptomatically

5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Suitable extinguishing: Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic or irritating gases or vapours.

Unusual fire & explosion hazards

Flammable vapours may travel a considerable distance to a source of ignition and flash back, or accumulate in low or confined spaces. Vapours may form explosive mixture with air at high concentrations.

Specific hazards If heated, harmful vapours may be formed.

5.3 Advice for firefighters

Special fire fighting procedures Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.

Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

Eliminate all sources of ignition.

Ensure adequate ventilation.

Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection.

Do not touch or walk through spilled material. Keep unnecessary and unprotected personnel from entering.

Read and follow manufacturer's recommendations. Avoid prolonged or repeated exposure.

Take precautionary measures against static discharges.

Use non-sparking hand tools and explosion proof electrical equipment.

For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal use of product.

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6.2 Environmental precautions

Environmental precautions

Do not discharge into drains, water courses or onto the ground.

Prevent material from entering sewers, waterways, or low areas.

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Spill clean up methods

Wear appropriate personal protective equipment as specified in Section 8.

Ventilate and evacuate the area. Eliminate all ignition sources. Use non sparking tools or equipment for clean up. In case of a large scale of spill, dyke area with sand to stop the spill spreading.

Absorb spillage with non-combustible, absorbent material - sand.

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

A vapor suppressing foam may be used to reduce vapors.

Water spray may reduce vapor but may not prevent ignition in closed spaces.

6.4 Reference to other sections

Reference to other sections See section 1 for emergency contact.

For personal protection, see section 8. For waste disposal, see section 13.

7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

Use proper personal protection when handling (refer to Section 8).

Provide good ventilation.

Avoid inhalation of vapours and contact with skin and eyes.

Use non sparking tools. Keep away from ignition sources.

Formation of sparks and static electricity must be prevented.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Do not eat, drink or smoke when using the product.

Wash thoroughly after handling.

Do not use contact lenses.

Do not mix with other chemicals.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container in a dry, cool and well-ventilated place. Protect against static discharge and keep away from sources of ignition.

Keep away from incompatible materials (see section 10).

Ground container and transfer equipment to eliminate static electric sparks.

Keep away from food, drink and animal feeding stuffs.

Temperature class: T2.

Storage temperature: Store at temperatures between 5°C and 25°C.

Storage class

Flammable liquid storage.

7.3 Specific end use(s) Specific end use(s): The identified uses for this product are detailed in Section 1. Usage description Use only according to directions. Replace and tighten cap after use.

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8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15 mins)		Basis
propan-2-ol	OEL	200 ppm		400 ppm		Sk
propan-2-ol	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

Ingredient comments Ireland, Occupational Exposure Limits 2020.
Workplace Exposure Limits Guidance Note EH40/2005.
DNEL:
(WORKERS) Skin contact - Long-term exposure - systemic effects: 888 mg/kg.
(WORKERS) Inhalation - Long-term exposure - systemic and local effects: 500 mg/m³.
(CONSUMER) Skin contact - Long-term exposure - systemic and local effects: 319 mg/kg.
(CONSUMER) Inhalation - Long-term exposure - systemic and local effects: 89 mg/m³.
(CONSUMER) Ingestion - Long-term exposure - systemic and local effects: 26 mg/kg.

Protective Equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Where necessary use lighting and electrical equipment designed for use in atmospheres where flammable vapours are present. Direct static electricity in the work area by grounding equipment.

Respiratory equipment

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN 143 should be used, and suitable respirator cartridges as a backup to engineering controls. Suggested PPE: Respirator with a vapour filter (EN 141). Type A/organic vapour protective components recommended. ABEK (EN 14387). Consult manufacturer for specific advice. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Where aerosols are in use, or smoke and mist occur, use combination filter - A-P2 or ABEKP2 - in compliance with EN 141. In case of intensive or longer exposure: Use a full-face supplied air respirator (EN 145).

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. In case of prolonged and intensive contact: Suggested material: (Suitable materials for longer, direct contact) Butyl rubber. Break through time: >480 minutes. Layer thickness: 0.5 mm. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skincontact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace.

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Eye protection	Wear tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear suitable protective clothing with elasticated cuffs and closed neck. Suitable type of protective boots: PVC. The selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	Do not eat, drink, or smoke while using this product. Wash hands and / or face before breaks and at the end of the shift. Wash promptly if skin becomes wet or contaminated. Remove contaminated clothing and protective equipment before entering eating areas.
Process conditions	Use only according to directions. Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety showers are located close by in the work place. Ground/bond

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solids, Pre-Saturated Wipes
Colour	Colourless.
Odour	Alcohol-like.
Odour threshold - lower	No information available as testing has not been completed on the finished product.
Odour threshold - upper	No information available as testing has not been completed on the finished product.
pH-Value, Conc. Solution	No information available as testing has not been completed on the finished product.
pH-Value, Diluted solution	No information available as testing has not been completed on the finished product.
Melting point	-89 °C @ 100%.
Initial boiling point and boiling range	82-83 °C 1.013 hPa @ 100%. DIN 53171.
Flash point	Approximately 18 (°C) CC (Closed cup) @70%.
Evaporation rate	No information available as testing has not been completed on the finished product.
Flammability state	Highly flammable liquid and vapour.
Flammability limit - lower(%)	2 @ 100%.
Flammability limit - upper(%)	12 @ 100%.
Vapour pressure	43 kPa 20 (°C), 60.2 hPa, 25C @ 100%.
Vapour density (air=1)	No information available as testing has not been completed on the finished product.
Relative density	0.85 - 0.87 g/cm ³ @ 70%, @ 20 (°C).
Bulk density	Not applicable as the product is a liquid.
Solubility	Completely miscible with water.
Decomposition temperature	No information available as testing has not been completed on the finished product.
Partition coefficient; nOctanol/Water	
Log Pow:	0,05, 25 °C, (literature value, 100% concentration.
Auto ignition temperature (°C)	425°C @ 100%.
Viscosity	2.5 mPas @ 100%
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

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9.2 Other information

Molecular weight

No information available as testing has not been completed on the finished product.

Volatile organic compound

No information available as testing has not been completed on the finished product.

10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity Vapours may form explosive mixture with air.
Reactions may occur with strong oxidizing agents and acids.

10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions

For information on hazardous reaction see section 10.1.
Hazardous polymerisation Hazardous polymerization is not expected to occur under normal temperatures and pressures.
Polymerisation description Unknown.:

10.4 Conditions to avoid

Conditions to avoid

Avoid heat, flames, static discharge and sparks.
Extremes of temperature and direct sunlight.
Avoid temperatures above 35°C

10.5 Incompatible materials

Materials to avoid

Avoid strong oxidising agents, bases, strong acids.
Risk of ignition or formation of inflammable gases or vapours with: Alkali metals, alkaline earth metals, aluminium in powder form.
Risk of explosion with: chlorates, phosgene, organic nitro compounds, hydrogen peroxide, nitrogen oxides.
Exothermic reaction with: oxidizing agents, aldehydes, amines, fuming sulphuric acid, iron.

10.6 Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information

No toxicological information for the overall finished product.

Acute toxicity (Oral LD50)

No information available as testing has not been completed on the finished product.

Acute toxicity (Dermal LD50)

No information available as testing has not been completed on the finished product.

Acute toxicity (Inhalation LD50)

No information available as testing has not been completed on the finished product.

Serious eye damage/irritation

Causes serious eye irritation.

Skin corrosion/irritation Rabbit,

Result: not irritating, (literature value.)

Respiratory sensitisation

The product is not classified as a respiratory hazard.

Skin sensitisation

Buehler Test (guinea pig), Result: not sensitizing, (literature value.)

Germ cell mutagenicity

Ames test (Salmonella typhimurium, with and without) Result: not mutagenic, (literature value.)

Carcinogenicity

The product is not classified as a carcinogen hazard.

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Specific target organ toxicity - Single exposure: STOT - Single exposure

The product is classified as a single exposure specific target organ toxin.

Specific target organ toxicity - Repeated exposure: STOT - Repeated exposure

The product is not classified as a repeat exposure specific target organ toxin.

Inhalation	May cause drowsiness or dizziness.
Ingestion	May cause drowsiness or dizziness.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Routes of entry	Eyes, skin, ingestion or inhalation.
Target organs	Eyes, skin, digestive system, respiratory system.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
propan-2-ol	5840.00mg/kg Rat	13900.00mg/kg Rabbit	

12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed on the finished product
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed on the finished product.
Acute toxicity - Aquatic plants	Propan-2-ol (CAS 67-63-0) EC50: > 100 mg/l, 72 h, Scenedesmus subspicatus, static test, (literature value.)
Acute toxicity - Microorganisms	No information available as testing has not been completed on the finished product.
Chronic toxicity - Fish	No information available as testing has not been completed on the finished product.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed on the finished product.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed on the finished product
Chronic toxicity - Microorganisms	No information available as testing has not been completed on the finished product
Ecotoxicity	The product is 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.
Eco toxilological information	PNEC: Marine water sediment 552 mg/kg. Soil 28 mg/kg Fresh water sediment 552 mg/kg. Fresh water 140.9 mg/l. Marine water 140.9 mg/l.

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12.2 Persistence and degradability

Degradability	Aerobic (53 %) Result: Readily biodegradable., Exposure time: 5 d, activated sludge, domestic, non-adapted, (literature value.)
Biological oxygen demand	No information available as testing has not been completed on the finished product.
Chemical oxygen demand	No information available as testing has not been completed on the finished product.
12.3 Bioaccumulative potential	Bioaccumulative potential The product is not bioaccumulating. (log Pow <= 4). Bioaccumulation factor No information available as testing has not been completed on the finished product. Partition coefficient; nOctanol/Water Log Pow: 0,05, 25 °C, (literature value, 100% concentration.
12.4 Mobility in soil Mobility	The product is miscible with water. May spread in water systems.
12.5 Results of PBT and vPvB assessment	Results of PBT and vPvB assessment The product does not contain any PBT or vPvB substances.
12.6 Other adverse effects	Other adverse effects None known.

Name	Acute toxicity (Fish)	(Fish) Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
propan-2-ol	LC50 96 Hours 9640.00mg/l Pimephales promelas (Fathead Minnow)	EC50 48 Hours 10000.00mg/l Daphnia magna	

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Disposal methods Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent. Product: Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator. Contaminated packaging: Can be used after reconditioning.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	:	3175
IMDG	:	3175
IATA	:	3175

14.2 Proper shipping name

ADR proper shipping name	Solids containing flammable liquid , (contains isopropanol)
IMDG proper shipping name	Solids containing flammable liquid , (contains isopropanol)
IATA proper shipping name	Solids containing flammable liquid , (contains isopropanol)

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14.3 Transport hazard class(es)

ADR class	4.1
IMDG class	4.1
IATA class	4.1

Transport labels



14.4 Packing group

ADR/RID/ADN packing group	II
IMDG packing group	II
IATA packing group	II

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	no data available
Emergency action code	no data available
Hazard no. (ADR)	4.1
Tunnel restriction code	no data available

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code Not applicable

15: REGULATORY INFORMATION

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

EU legislation 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 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

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Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019) Workplace Exposure Limits Guidance Note EH40/2005.
Chemical safety assessment	No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General Information: This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010

This revision	4
First issue:	22 August 2012
Revised:	10 September 2020

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Further information

|| Indicates updated sections

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The data contained herein is based on information currently available to QTEK Manufacturing Ltd. and is believed to be factual. As a blender, and compounder, QTEK does not manufacture the raw materials used in this product and correspondingly relies on information provided to QTEK Manufacturing Ltd. from material safety data sheets on the specific raw materials in the construction of this material safety data sheet. Such information is, to the best of QTEK Manufacturing Ltd's knowledge and belief, accurate and reliable as of the date of this MSDS. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO THE ACCURACY, RELIABILITY, OR COMPLETENESS. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular application.

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