

## 1. Identification

<b>Product identifier</b>	<b>Presaturated wipes containing Ardrex 5515 (FLIQ)</b>
<b>Other means of identification</b>	
<b>SDS number</b>	FLIQ3148
<b>Product code</b>	SW420007
<b>Recommended use</b>	Presaturated cleaning wipes.
<b>Recommended restrictions</b>	Industrial use only.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company Name</b>	Contec, Inc.
<b>Address</b>	525 Locust Grove Spartanburg, SC 29303 USA
<b>Telephone</b>	1-864-503-8333
<b>Email</b>	SDS@contecinc.com
<b>Emergency phone number</b>	Call CHEMTREC day or night USA/Canada: 1.800.424.9300 Mexico: 1.800.681.9531 Outside USA/Canada: +1.703.527.3887

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 3
<b>Health hazards</b>	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/face protection.
<b>Response</b>	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

**Supplemental information**

Although the product as a whole is in solid format, the product does not meet the OSHA HCS definition of a flammable solid as per Appendix B to 1910.1200 - Physical Hazard Criteria, section B.7.1 and B. 7.2.

**3. Composition/information on ingredients****Mixtures**

Chemical name	CAS number	%
Butan-2-ol	78-92-2	30 - 60
Ethyl methyl ketone	78-93-3	30 - 60

**Composition comments**

All concentrations are in percent by volume.  
The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.

**4. First-aid measures****Inhalation**

Not relevant, due to the form of the product. However: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**Skin contact**

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**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 if irritation develops and persists.

**Ingestion**

Not relevant, due to the form of the product. However: In case of ingestion: Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

Direct contact with eyes causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea. Respiratory tract irritation.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**5. Fire-fighting measures****Suitable extinguishing media**

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

May burn with invisible flame. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread near ground to sources of ignition. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Carbon oxides. Organic compounds.

**Special protective equipment and precautions for firefighters**

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

**Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water. Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

Solid containing flammable liquid.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid release to the environment. The liquid solvent solution is miscible in water. Spills are very unlikely, because the wiper fabric has absorbed the liquid solvent solution. In the event of a spill, contain with an inert absorbent. Collect the wipes with a non sparking tool and absorb or wipe any residual liquids. Put material in suitable container.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage****Precautions for safe handling**

WARNING! Used wipes may catch fire if improperly discarded or stored near ignition sources. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Avoid breathing mist/vapors. Avoid contact with skin, eyes and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Keep containers closed when not in use. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	PEL	450 mg/m3 150 ppm
Ethyl methyl ketone (CAS 78-93-3)	PEL	590 mg/m3 200 ppm

**US. ACGIH Threshold Limit Values (TLV)**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	TWA	100 ppm
Ethyl methyl ketone (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	IDLH	2000 ppm
Ethyl methyl ketone (CAS 78-93-3)	IDLH	1.4 % 3000 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	STEL	455 mg/m3 150 ppm
	TWA	305 mg/m3 100 ppm
Ethyl methyl ketone (CAS 78-93-3)	STEL	885 mg/m3 300 ppm
	TWA	590 mg/m3 200 ppm

**Biological limit values****ACGIH Biological Exposure Indices (BEI)**

Components	Value	Determinant	Specimen	Sampling Time
Ethyl methyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

Follow standard monitoring procedures.

**Appropriate engineering controls**

Good general ventilation 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.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	If splashing is possible, wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Take note of the information given by the manufacturer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Recommended materials: Neoprene. Polyvinyl chloride (PVC). Polyethylene. Chlorinated polyethylene (or Chlorosulfonated polyethylene). Natural rubber. Nitrile rubber/Nitrile latex - NBR. Ethyl vinyl alcohol laminate ("EVAL"). Unsuitable materials: Polyvinyl alcohol (PVA).
<b>Skin protection</b>	
<b>Other</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Respiratory protection</b>	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), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Check with respiratory protective equipment suppliers.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using do not smoke. 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.

**9. Physical and chemical properties****Appearance**

<b>Physical state</b>	Solid.
<b>Form</b>	Liquid soaked wipe.
<b>Color</b>	Colorless.
<b>Odor</b>	Property has not been measured.
<b>Odor threshold</b>	Property has not been measured.
<b>pH</b>	Property has not been measured. (liquid)
<b>Melting point/freezing point</b>	Property has not been measured. (liquid)
<b>Initial boiling point and boiling range</b>	Property has not been measured. (liquid)
<b>Flash point</b>	< 78.8 °F (< 26 °C) (liquid)
<b>Evaporation rate</b>	> 1 (water = 1) (liquid)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	1.2 (liquid)
<b>Explosive limit - upper (%)</b>	10.9 (liquid)
<b>Vapor pressure</b>	Property has not been measured. (liquid)
<b>Vapor density</b>	Property has not been measured. (liquid)
<b>Relative density</b>	0.81 (liquid)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Partly soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable to mixtures.
<b>Auto-ignition temperature</b>	Property has not been measured. (liquid)
<b>Decomposition temperature</b>	Property has not been measured.
<b>Viscosity</b>	Property has not been measured. (liquid)
<b>Other information</b>	
<b>Density</b>	Property has not been measured. (liquid)
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	100 % (liquid)

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Alkalies.
<b>Hazardous decomposition products</b>	Combustion may produce: Oxides of carbon and other organic substances.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause respiratory tract irritation.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Direct contact: Causes serious eye irritation.
<b>Ingestion</b>	Not relevant, due to the form of the product.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Direct contact with eyes causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea. Respiratory tract irritation.

### Information on toxicological effects

<b>Acute toxicity</b>	Not relevant, due to the form of the product in its manufactured and shipped state.
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Components	Species	Test Results
Butan-2-ol (CAS 78-92-2)		
<u><b>Acute</b></u>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
Ethyl methyl ketone (CAS 78-93-3)		
<u><b>Acute</b></u>		
<b>Dermal</b>		
LD50	Rabbit	10 ml/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Direct contact: Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Not listed.		
<b>NTP Report on Carcinogens</b>		
Not listed.		
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>		
Not listed.		
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea. May cause respiratory tract irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	

**Chronic effects** Frequent or prolonged contact may defat and dry the skin.

## 12. Ecological information

**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.

Components		Species	Test Results
Ethyl methyl ketone (CAS 78-93-3)			
Aquatic			
Algae	EC50	Algae	2029 mg/l, 96 hours
			1972 mg/l, 72 hours
			1901 mg/l, 24 hours
			1888 mg/l, 48 hours
Acute			
Crustacea	EC50	Aquatic Invertebrates	345 mg/l, 24 hours
			308 - 5091 mg/l, 48 hours
	NOEC	Aquatic Invertebrates	68 mg/l, 48 hours
Fish	LC50	Fish	2993 - 3200 mg/l, 96 hours
			2656 mg/l, 72 hours
			1816 mg/l, 2 hours
			1723 mg/l, 48 hours

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** Bioconcentration potential is low.

**Partition coefficient n-octanol / water (log Kow)**

Butan-2-ol (CAS 78-92-2)	0.61
Ethyl methyl ketone (CAS 78-93-3)	0.29

**Mobility in soil** No data available.

**Other adverse effects** The product contains a volatile organic compound which has a photochemical ozone creation potential.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. Used wipes must be disposed in a closed container. Dispose of used wipes by dry waste to landfill.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 F  
D035: Waste Methyl ethyl ketone  
U159: Waste Methyl ethyl ketone (MEK)  
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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport information

### DOT

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquids, n.o.s. (sec-butyl alcohol, methyl ethyl ketone)
<b>Transport hazard class(es)</b>	
Class	3
Subsidiary hazard	-
Label(s)	3
<b>Packing group</b>	II
<b>Environmental hazards</b>	
Marine pollutant	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242

#### IATA

UN number	-
UN proper shipping name	IATA: Not permitted for transport.
Transport hazard class(es)	
Class	-
Subsidiary hazard	-
Packing group	-
Environmental hazards	No.
Special precautions for user	IATA classification is not relevant as the material is not transported by air.

#### IMDG

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (sec-butyl alcohol, methyl ethyl ketone)
Transport hazard class(es)	
Class	3
Subsidiary hazard	-
Packing group	II
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Butan-2-ol (CAS 78-92-2)	Listed.
Ethyl methyl ketone (CAS 78-93-3)	Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated "active".

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Flammable (gases, aerosols, liquids, or solids)  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

##### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Butan-2-ol	78-92-2	30 - 60

#### Other federal regulations

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

Not regulated.

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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Ethyl methyl ketone (CAS 78-93-3) 6714

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Ethyl methyl ketone (CAS 78-93-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Ethyl methyl ketone (CAS 78-93-3) 6714

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Ethyl methyl ketone (CAS 78-93-3) Low priority

**US state regulations****US. Massachusetts RTK - Substance List**

Butan-2-ol (CAS 78-92-2)

Ethyl methyl ketone (CAS 78-93-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Butan-2-ol (CAS 78-92-2)

Ethyl methyl ketone (CAS 78-93-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Butan-2-ol (CAS 78-92-2)

Ethyl methyl ketone (CAS 78-93-3)

**US. Rhode Island RTK**

Butan-2-ol (CAS 78-92-2)

Ethyl methyl ketone (CAS 78-93-3)

**California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

Issue date	17-June-2024
Revision date	-
Version #	01
Further information	HMIS Rating: G - Safety Glasses, Gloves, Vapor Respirator



**HMIS® ratings**

Health: 2  
Flammability: 3  
Physical hazard: 0  
Personal protection: G

**List of abbreviations**

DOT: Department of Transportation.  
EC50: Effective Concentration, 50%.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IDLH: Immediately Dangerous To Life or Health.  
IMDG: International Maritime Dangerous Goods.  
LC50: Lethal Concentration, 50%.  
LD50: Lethal Dose, 50%.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
NOEC: No Observed Effect Concentration.  
PEL: Permissible Exposure Limit.  
STEL: Short-Term Exposure Limit.  
TWA: Time Weighted Average Value.

**Disclaimer**

Contec, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.