



1. Identification

Product Name: **Bravo=Zulu BZ Sat Wipes (Acetone)**

Product Code: 18011

Product Description: BZ Pre-Saturated Wipe
MIL SPEC D-329 Acetone

Manufacturer Name: M² Innovations & Insights
5 Saddlewood Court
Address: Mansfield, TX 76063
USA

Website: www.msqrinnovations.com

General Phone Number: +1.855-501-2049

Emergency Phone Number: Chemtrec® US: 1-800-424-9300

SDS Creation Date: May 9, 2023

2. Hazard(s) Identification

GHS Pictograms:



Signal Word: **DANGER!**

GHS Class: Flammable Liquid, Category 2.
Eye Irritant, Category 2.
Specific Target Organ Toxicity, Single Exposure, Category 3.

Hazard Statements: Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.



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Precautionary Statements:

Keep away from heat/sparks/open flames — No smoking.
Take precautionary measures against static discharge.
In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
Wear protective gloves, protective clothing, and eye protection.
Avoid breathing vapors.
Store in a well-ventilated place. Keep container tightly closed.
IF IN EYES: Rinse cautiously with water for several minutes.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Emergency Overview: DANGER! Extremely flammable. Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure may cause headaches and dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system. Central nervous system

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.



3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>Ingredient Percent</u>
Acetone	67-64-1	100% by volume

4. First-aid Measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

5. Fire-Fighting Measures

Flash Point:	-20°C (-4 °F)
Auto Ignition Temperature:	837 °C (465 °F)
Lower Flammable/Explosive Limit:	2.6 % by volume
Upper Flammable/Explosive Limit:	12.8 % by volume
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.



SAFETY DATA SHEET



- Extinguishing Media:** Use carbon dioxide (CO₂) or dry chemical when fighting fires involving this material.
- Protective Equipment:** In the event of a fire, wear Self-Contained Breathing Apparatus (SCBA), approved or in accordance to NFPA, NIOSH, and/or European Standard EN 137 guidelines or equivalent and full protective gear.
- NFPA Ratings:**
Health-2
Flammability-3
Reactivity-0

6. Accidental Release Measure

- Personal Precautions:** Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
- Environmental Precautions:** Avoid runoff into storm sewers, ditches, and waterways. Comply with all government regulations on reporting releases.
- Methods of containment:** 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.
- Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.
- Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in Section 8.
- Methods for cleanup:** Remove all sources of ignition. Collect the wipes with a non sparking tool and absorb or wipe any residual liquids. Place in a suitable container for proper disposal. Use appropriate protective apparel as described in Section 8. Avoid contact with skin and eyes.

7. Handling and Storage

- Handling:** Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.



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Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use. Keep away from aldehydes, halogenated organics, halogens, strong

Special Handling Procedures: WARNING! Used wipes may catch fire if improperly discarded or stored near ignition sources.
Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133.

Skin Protection: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Respiratory Protection: Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash facility and a deluge safety shower.

Exposure Guidelines

Acetone:



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Guideline ACGIH: TLV-TWA: 500 ppm
TLV-STEL: 750 ppm

Guideline OSHA: OSHA-TWA: 1000 ppm

9. Physical and Chemical Properties

Physical State Appearance:	Liquid Pre-saturated wipes
Color	Colorless
Boiling Point	56°C (133 °F)
Melting Point	-97°C (-142 °F)
Specific Gravity	0.79 @20°C (68°F)
Solubility	Soluble in water
Vapor Density	2.0
Vapor Pressure	185 mm Hg @20°C (68°F)
Percent Volatile	100%
Evaporation Rate	>10
pH	Not Determined
Viscosity	0.4 mm ² /s
Coefficient of Water/Oil	-0.24
Flash Point	-20°C (-4°F)
Auto Ignition Temperature	465°C (837°F)

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures

Hazardous Polymerization: Not reported.



Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

11. Toxicological Information

Isopropyl alcohol

Eye: Eye - Human Standard Draize test.: 500 ppm
Eye - Rabbit Standard Draize test.: 20 mg/24H
Eye - Rabbit Standard Draize test.: 10 uL
Eye - Human Standard Draize test.: 186300 ppm
Eye - Rabbit Standard Draize test.: 20 mg

Skin: Administration onto the skin - Rabbit : 20 mL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Guinea pig : >9400 uL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Mouse : 31.6 ug/kg/2W (Intermittent) [Biochemical - Metabolism (Intermediary) - Other]
Administration onto the skin - Rabbit : 395 mg
Administration onto the skin - Rabbit : 500 mg/24H

Inhalation: Inhalation - Rat LC50: 50100 mg/m³ [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 50100 mg/m³/8H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 44 gm/m³/4H [Details of toxic effects not reported other than lethal dose value]

Ingestion: Oral - Rat LD50: 5800 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50: 5800 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor]
Oral - Mouse LD50: 3 gm/kg [Details of toxic effects not reported other than lethal dose value]

12. Ecological Information

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

13. Disposal Considerations



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**Waste Disposal:**

Consult with the US EPA Guidelines listed in 40CFR Part 261.3 on waste for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state, local, or provincial waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

WARNING! Used wipes may catch fire if improperly discarded or stored near ignition sources.

Contaminated Packaging:

Do not reuse containers without proper cleaning or reconditioning.

14. Transportation Information

DOT Shipping Name: SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C (acetone; propan-2-one; propanone) Solids Containing Flammable Liquid, n.o.s. (Acetone). (Limited Quantity)

DOT UN Number: UN3175 (Limited Quantity)

DOT Hazard Class 4.1

DOT Packing Group II

15. Regulatory Information

N/A

16. Other Information

HMIS Ratings:

HMIS Health Hazard: 2*

HMIS Fire Hazard: 3

HMIS Reactivity: 0

HMIS Personal Protection: X