

VisionSort Starter Kit

rev.11/24

Cat#TCK001

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: VisionSort Starter Kit
PRODUCT CODE: TCK001
MANUFACTURER: ThinkCyte Inc.
ADDRESS: 1100 Island Drive, STE 203, Redwood City, CA 94065
WEBSITE: <https://thinkcyte.com/>

No	Component	Part Number	Description	Volume/ Units	Safety Information
1	VS Sort Cartridge	TCCCP5001-10	NA	1X10 Pack	No hazards
2	VS Wash Cartridge	TCCCPW01-1	NA	2 EA	No hazards
3	15 ml Tubes	TCC-TU001-15-25	NA	2X25 Tubes	No hazards
4	50 ml Tubes	TCC-TU001-50-25	NA	1X25 Tubes	No hazards
5	VS Sheath	TCR-SH001-250	Liquid	250 mL	See below
6	VS Suspension Solution	TCR-SS001-100	Liquid	100 mL	See below
7	VS Clean	TCR-CN001-250	Liquid	250 mL	See below
8	VS C-Beads	TCB-CB001-1	Liquid	120 µL	See below
9	VS P-RBW Beads	TCB-RBW001-1	Liquid	250 µL	See below
10	Vision Beads	TCB-VB001-1	Liquid	1.2 mL	See below
11	Vision Live Suspension solution	TCR-LSS001-500	Liquid	500 mL	See below

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SECTION 2: HAZARD IDENTIFICATION

VS Sheath

Classification of the substance or mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None.

VS Suspension Solution

GHS Classification	Signal Word
Hazard pictograms	None
Health hazards	Not Hazardous
Physical hazards	Not Hazardous
Environmental hazards	Not Hazardous
Hazard Statements	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable
Prevention	Not Applicable

VS Clean

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation, Category 2.

Serious eye damage/eye irritation: Category 1.

Environmental hazards - Not classified.

OSHA defined hazards - Not classified.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves and eye protection.

Response IF ON SKIN: Wash with plenty of water.

If Skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor.

Storage: Store away from incompatible materials.

Disposal: Dispose of container in accordance with local, regional, national and international regulation.

Hazard(s) not otherwise classified (HNO).

Label elements:



Signal word: Corrosive.

VS C-Beads

Classification of substance or mixture: Not Classified as hazardous according to Regulation (EC) 1272/2008 (CLP/GHS) or Directive 67/548/EEC as amended.

Caution: This substance has not been fully tested (EC).

Inhalation (power/mists): May be harmful if inhaled. May cause upper respiratory tract & mucous membrane irritation.

Skin and Eyes: May cause skin and eye irritation.

Ingestion: May be harmful if swallowed.

Environmental: May be harmful to the environment.

Label Elements: None required according to regulation (EC) 1272/2008 (CLP/GHS) or Directive 1999/45/EC.

VS P-RBW Beads

Classification of substance or mixture: Not classified as hazardous according to Regulation (EC) 1272/2008 (CLP/GHS) or Directive 67/548/EEC as amended.

Caution: This substance has not been fully tested (EC).

Inhalation (power/mists): May be harmful if inhaled. May cause upper respiratory tract & mucous membrane irritation.

Skin and Eyes: May cause skin and eye irritation.

Ingestion: May be harmful if swallowed.

Environmental: May be harmful to the environment.

Vision Beads

Classification of substance or mixture: Not Classified as hazardous according to U.S OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Caution: This substance has not been fully tested (EC).

Inhalation (power/mists): May cause upper respiratory tract & mucous membrane irritation.

Skin and Eyes: May cause skin, eye irritation.

Ingestion: May be harmful if swallowed.

Environmental: May be harmful to the environment.

Label Elements: None required according to U.S. OSHA(Hazcom 2012) and Canadian(WHMIS 2015) regulations.

Vision Live Suspension Solution

Classification of the substance or mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.

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SECTION 3: COMPOSITION/INGREDIENTS

VS Sheath

No components need to be disclosed according to the applicable regulations.

Emergency Overview

OSHA Hazards: No known OSHA hazards.

GHS Classification: Not a dangerous substance according to GHS.

Pictogram: None.

Signal word: None.

Hazard statement(s): None.

Precautionary statement(s): None.

HMIS Classification

Health hazard: 0.

Flammability: 0.

Physical hazards: 0.

NFPA Rating

Health Hazard: 0.

Fire: 0.

Reactivity Hazard: 0.

Potential Health Effects

Eyes: May cause eye irritation.

VS Suspension Solution

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

VS Clean

Chemical name, Common name and synonyms CAS number: Sodium hypochlorite 7681-52-9.

Composition Comments

US GHS: The exact percentage (concentration) of composition cannot be revealed.

VS C-Beads

The product contain Sodium Azide at a concentration of 0.02% which is fatal if swallowed(T+; R28 R32 N)

VS P-RBW Beads

The product contains Sodium Azide at a concentration of 0.02% which is fatal if swallowed(T+; R28 R32 N;R50-53)

Vision Beads:

The product contain Sodium Azide at a concentration of less than 0.05% which is fatal if swallowed(T+; R28 R32 N)

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Vision Live Suspension Solution

The product contains Sodium Azide at a concentration of 0.09% which is fatal if swallowed(T+; R28 R32 N;R50-53)

SECTION 4: FIRST AID MEASURES**VS Sheath**

If breathed in, move the person into fresh air. Seek medical attention if any discomfort continues.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Rinse mouth with water. Never give anything orally to an unconscious person.

VS Suspension Solution

Description of first aid measures:

Skin contact: Rinse skin with water. Immediate medical attention is not required.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to Physician: Treat symptomatically.

VS Clean

Inhalation: If breathed in, move the person into fresh air.

Most important symptoms/effects, acute and delayed: Indication of immediate medical attention and special treatment needed.

General information:

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Have a person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed: None.

Most important symptoms and effects, both acute and delayed: Not applicable.

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VS C-Beads

Inhalation: Immediate move to fresh air & rest. Keep under observation and if breathing becomes difficult seek immediate medical attention.

Skin Contact: Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

Eye Contact: First rinse with plenty of water for at least 10 minutes (remove contact lenses if easily possible), ensure lids remain open during flushing, and then seek immediate medical attention.

If Swallowed: Rinse your mouth with water, but do not swallow. Do not induce vomiting. Give plenty of water to drink (**ONLY IN CONSCIOUS PERSONS**). Refer for medical attention.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Skin irritation: May cause redness and pain.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Probable mucosal damage may contraindicate the use of gastric lavage. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin.

VS P-RBW Beads

Inhalation: Immediately move to fresh air & rest.

Keep under observation and if breathing becomes difficult seek immediate medical attention.

Skin Contact: Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

Eye Contact: First rinse with plenty of water for at least 10 minutes (remove contact lenses if easily possible), ensure lids remain open during flushing, and then seek immediate medical attention.

If Swallowed: Rinse mouth with water, but do not swallow mouthwash. Do not induce vomiting. Give plenty of water to drink (**ONLY IN CONSCIOUS PERSONS**).

Vision Beads

Inhalation: Immediate move to fresh air & rest. Keep under observation and if breathing becomes difficult seek immediate medical attention. Resuscitate if breathing stops.

Skin Contact: Remove contaminated clothes. Rinse skin with plenty of water or shower. Seek medical attention.

Eye Contact: First rinse with plenty of water for at least 10 minutes (remove contact lenses if easily possible), ensure lids remain open during flushing, and then seek immediate medical attention.

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Vision Live Suspension Solution

Inhalation: Move the person to fresh air. Seek medical attention if any discomfort continues.

Skin contact: Wash with soap and water.

Eye contact: Flush eyes with water as a precaution.

Ingestion: May be harmful if swallowed. Seek medical advice immediately.

SECTION 5: FIREFIGHTING MEASURES**VS Sheath**

Condition of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- decomposition products not known.

VS Suspension Solution

Extinguishing media:

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Foam, Dry chemicals.

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture: Not known.

Advice for firefighters: Standard procedure for chemical fires.

VS Clean

Suitable extinguishing media: Treat for surrounding material.

Unsuitable extinguishing: Do not use a water jet as an extinguisher, as this will spread the fire.

Media Specific hazards arising from during fire, gasses hazardous to health may be formed.

The chemical Special protective equipment, self-contained breathing apparatus and full protective clothing must be worn in case of fire and precautions for firefighters

Fire fighting: Move containers from the 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: No unusual fire or explosion hazards noted.

VS C-Beads

Forms combustible solid if allowed drying out. Emits corrosive & toxic fumes, including oxides of carbon, nitrogen during combustion.

Extinguishing Method: Use foam extinguishers or water spray.

Special Firefighting Procedure: Wear self contained breathing apparatus with full face shield operated in positive pressure mode, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire Hazards and Explosion Hazards: May produce black acrid smoke if burned.

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VS P-RBW Beads

Forms combustible solid if allowed drying out. Emits corrosive & toxic fumes, including oxides of carbon & nitrogen during combustion.

Extinguishing Method: Use foam extinguishers or water spray. Special Fire Fighting Procedure: Wear self contained breathing apparatus with full face shield operated in positive pressure mode, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire Hazards and Explosion Hazards: May produce black acrid smoke if burned.

Vision Beads

Emits corrosive & toxic fumes, including oxides of carbon, nitrogen, sodium and potassium during combustion.

Extinguishing Method: Use foam extinguishers, water spray, carbon dioxide and dry chemicals. Special Firefighting Procedure: Wear self contained breathing apparatus with full face shield operated in positive pressure mode, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire Hazards and Explosion Hazards: May produce black acrid smoke and irritating fumes if burned.

Vision Live Suspension Solution

Suitable extinguishing media: Water spray, carbon dioxide (CO₂), foam, dry chemicals.

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture: Not known.

Advice for firefighters: Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

VS Sheath

Personal precautions: Avoid dust formation. Avoid breathing vapors, mist, gas, or dust.

Environmental precautions: Do not let products enter drains.

VS Suspension Solution

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

Always wear recommended Personal Protective Equipment.

Environmental precautions: No special environmental precautions required.

Methods and material for containment and cleaning up: Soak up with inert absorbent material.

VS Clean

Methods and materials for containment and cleaning up: Keep unnecessary personnel away. Keep people away from an upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Prevent entry into basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush the area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean the surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

VS C-Beads

Use protective equipment.

Spill/Leaks: Clean up spills using an absorbent, non-combustible material and gather up placing in a clean closed container for disposal. Do not wash away into sewers.

VS P-RBW Beads

Clean up spills using an absorbent, non-combustible material and gather up placing in a clean closed container for disposal. Do not wash away into sewers.

Vision Beads

Use protective equipment.

Spill/Leaks: Clean up spills using an absorbent, non-combustible material and gather up placing in a clean closed container for disposal. Do not wash away into sewers.

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).

Vision Live Suspension Solution

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

Always wear recommended Personal Protective Equipment.

Environmental precautions: No special environmental precautions required.

Methods and material for containment and cleaning up: Stop leak if without risk

Soak up with non-combustible absorbent material and dispose of waste according to guidelines.

SECTION 7: HANDLING AND STORAGE

VS Sheath

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. **Conditions for safe storage:** Keep the container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: RT.

VS Suspension Solution

Precautions for safe handling: Use personal protective equipment as required. No special handling advice is necessary.

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Conditions for safe storage, including any incompatibilities: Keep in a dry, cool, and well-ventilated place. Keep in properly labeled containers. Store at 2-8°C.

VS Clean

Avoid contact with eyes and skin. Provide adequate ventilation. Wear appropriate personal protective equipment.

Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using, do not eat or drink. Product contains a strong oxidizer.

Occupational exposure limits: Reclose the cap tightly after each use. Degrades with age and exposure to heat and sunlight. Store upright in a cool, dry area, away from direct sunlight and heat. In case of a spill, flood areas with large quantities of water. Keep the container tightly closed in a cool, dry, and well-ventilated place.

Store at RT.

VS C-Beads

Store unopened packages at ambient temperature, light protected in a well ventilated place away from heat. Store at 2-8°C.

VS P-RBW Beads

Handle with PPE. Avoid direct skin contact. Store at room temperature or at 2-8°C.

Vision Beads

Store packages tightly closed away from light, incompatible materials (Strong oxidizing agents, Strong acids, Strong bases, Nitrogen compounds) protected in a well ventilated place away from heat.

Store at 2-8°C.

Vision Live Suspension Solution

Precautions for safe handling: Use Personal Protective Equipment as required. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool, and well-ventilated place. Keep in properly labeled containers.

Recommended storage at 4° C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VS Sheath

Contains no substances with occupational exposure limit values.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substance, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: General industrial hygiene practice.

VS Suspension Solution

Exposure Limits-Contains no substances with occupational exposure limit values.

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Exposure controls-

Personal Protective Equipment: Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection: Wear suitable gloves.

Glove material: Compatible chemical-resistant gloves.

Eye protection: Tight sealing safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls: No special environmental precautions required.

VS Clean

Components Type Value: Sodium hypochlorite (CAS 7681-52-9)

Biological limit values: No biological exposure limits noted for the ingredient(s).

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. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment.

Eye/face protection: Wear safety glasses with side shields.

Hand protection: For prolonged use, wear rubber gloves. Others wear appropriate chemical resistant clothing.

Respiratory protection: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2)

Thermal hazards: Not applicable.

General hygiene considerations: 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. Wash hands before breaks and immediately after handling the product. When using, do not eat or drink.

VS C-Beads

Components with workplace control parameters- No components above the 0.1% threshold have specific workplace control parameters assigned to our knowledge. Local mechanical ventilation is not required as supplied, but this is also dependent on other mobile phases and analytes used. Always use a fume cupboard if handling as the liquid component may become airborne.

Personal Protective Equipment:

Respiratory protection: If required to control exposure, use only suitable respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Suitable impervious gloves (e.g. Nitrile or Neoprene rubber). The selected protective gloves have to conform to EN 374.

Eye Protection: Safety glasses with side-shields conforming to EN 166.

Hygiene measures: Avoid contact of contents with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

VS P-RBW Beads

Components with workplace control parameters. No components above the 0.1% threshold have specific workplace control parameters assigned to our knowledge. Local mechanical ventilation is not required as supplied, but this is also dependent on other mobile phases and analytes used. Always use a fume cupboard if handling as the liquid component may become airborne.

Personal Protective Equipment: **Respiratory protection:** If required to control exposure, use only suitable respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Suitable impervious gloves (e.g. Nitrile or Neoprene rubber). The selected protective gloves have to conform to EN 374.

Eye Protection: Safety glasses with side-shields conforming to EN 166.

Hygiene measures: Avoid contact of contents with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Vision Beads

Components with workplace control parameters - Local mechanical ventilation is not required as supplied, but this is also dependent on other mobile phases and analytes used. Always use a fume cupboard if handling as the liquid component may become airborne.

Personal Protective Equipment:

Respiratory protection: If required to control exposure, use only suitable respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Suitable impervious gloves (e.g. Nitrile or Neoprene rubber). The selected protective gloves have to conform to EN 374.

Eye Protection: Safety glasses with side-shields conforming to EN 166.

Hygiene measures: Avoid contact of contents with skin, eyes, and clothing. Avoid breathing dust, fumes or vapors. Wash hands before breaks and immediately after handling the product.

Vision Live Suspension Solution

Control parameters:

Sodium Azide (26628-22-8)	
	Threshold limit (Absorbed through skin)
USA NIOSH	0.3 mg/m ³
USA NIOSH	0.1 ppm
USA OSHA	0.29 mg/m ³
USA OSHA	0.11 ppm

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection: Wear suitable gloves.

Glove material: Compatible chemical-resistant gloves.

Eye protection: Tight sealing safety goggles.

Skin and body protection: Wear suitable protective clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls: No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VS Sheath

Physical state: Liquid.

Water Solubility: No data available.

Other Solubility: No data available.

Boiling Point (°C): No data available.

Melting Point (°C): No data available.

Flash Point (°C): No data available.

Ignition Temperature (°C): No data available.

Density: No data available.

pH 6-8

VS Suspension Solution

Physical state: Liquid.

Color: No data.

Odor: No data.

Molecular Weight: No data.

Flammability (solid, gas): No data.

Lower explosion limit: No data.

Upper explosion limit: No data

pH 6-8

VS Clean

Appearance: Clear.

Physical state: Liquid.

Color: Clear to Light yellow.

Odor threshold: Not available.

pH 11.8 - 12.9

VS C-Beads

Physical State: Diluted suspension of Polystyrene beads organic dye stained in water with 0.02% Sodium Azide as preservative.

Color: Cloudy, various depending on fluorophore used.

Boiling Point: 100 °C / 212 °F.

Melting Point: No information available.

Decomposition temperature: No information available.

Flash Point: Not applicable.

Evaporation Rate: No information available.

Specific Gravity: No information available.

Solubility: No information available.

VS P-RBW Beads

Physical State: Dilute suspension of Polystyrene beads stained with organic dye in water with 0.01% NP40 substitute and 0.02% Sodium Azide as preservative.

Color: Cloudy.

Boiling Point: 100 °C / 212 °F.

Melting Point: No information available.

Decomposition temperature: No information available.

Flash Point: Not applicable.

Evaporation Rate: No information available.

Specific Gravity: No information available.

Solubility: No information available

Vision Beads

Physical State: Liquid

Color: No information available.

Boiling Point: No information available.

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Melting Point: No information available.

Solubility: No information available.

Vision Live Suspension Solution

Physical state: Liquid.

Color: No data available.

Odor: No data available.

Molecular Weight: No data available.

Flammability (solid, gas): No data available.

Lower explosion limit: No data available.

Upper explosion limit: No data available.

SECTION 10: STABILITY AND REACTIVITY

VS Sheath

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: No data available.

Materials to avoid: No data available.

Hazardous decomposition products: No data available.

VS Suspension Solution

Reactivity: None known.

Chemical stability: Stable under normal conditions. Possibility of hazardous reactions.

Hazardous reaction has not been reported.

Conditions to avoid: No information available.

Incompatible materials: No dangerous reaction known under conditions of normal use.

Hazardous decomposition products: No data available.

Melting point/melting range: No data.

Boiling point/boiling range: No data.

Flash point: No data.

Autoignition Temperature: No data.

Decomposition temperature: No data.

VS Clean

Hazardous decomposition products: No data available.

Melting point/melting range: No data.

Boiling point/boiling range: No data.

Flash point: No data.

Autoignition Temperature: No data.

Decomposition temperature: No data.

VS C-Beads

Stability: Stable.

Conditions to avoid: Extreme heat.

Materials to avoid: Strong oxidizing agents, bases.

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Hazardous Decomposition: Monomer may be formed if heated to high temperatures.

May release toxic fumes including oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

VS P-RBW Beads

Extreme heat Materials to avoid: Strong oxidizing agents, bases.

Hazardous Decomposition: Monomer may be formed if heated to high temperatures.

May release toxic fumes including oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

Vision Beads

Stability: Stable.

Conditions to avoid: Extreme heat.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition: May release smoke and toxic fumes including oxides of carbon, nitrogen, sodium and potassium.

Hazardous Polymerization: Will not occur.

Vision Live Suspension Solution

Reactivity: None known.

Chemical stability: Stable under normal conditions. Hazardous reaction has not been reported.

Conditions to avoid: No information available.

Incompatible materials: Acids, metal, water (Sodium Azide may react with copper, lead, brass or solder systems overtime to form an accumulation of highly explosive compounds containing lead and copper azide)

Hazardous decomposition products: No data available.

Flash point: No data available.

Autoignition Temperature: No data available.

Decomposition temperature: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

VS Sheath

Acute toxicity: No data available.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA,NTP,IARC,ACGIH

Reproductive toxicity: No data available.

Teratogenicity: No data available.

Specific target organ toxicity – single exposure.

(GHS): No data available.

Specific Target organ toxicity – repeated exposure.

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(GHS): No data available.

Aspiration hazard: No data available.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: No data available.

Additional information

RTECS: Not available

VS Suspension Solution

Information on toxicological effects:

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure: Acute toxicity Data are conclusive but insufficient for classification.

Skin corrosion/irritation: Data are conclusive but insufficient for classification.

Serious eye damage/irritation: Data are conclusive but insufficient for classification.

Respiratory or skin sensitization: Data are conclusive but insufficient for classification.

Specific target organ toxicity (STOT) – single exposure: Data are conclusive but insufficient for classification.

Specific target organ toxicity (STOT) – repeated exposure: Data are conclusive but insufficient for classification.

Carcinogenicity

Data are conclusive but insufficient for classification.

Germ cell mutagenicity: Data are conclusive but insufficient for classification.

Reproductive toxicity: Data are conclusive but insufficient for classification.

Aspiration hazard: Data are conclusive but insufficient for classification.

VS Clean

Information on likely routes of exposure

Inhalation - No adverse effects due to inhalation are expected. Excessive intentional inhalation may cause respiratory tract irritation.

Skin contact-Causes skin irritation.

Eye contact - Causes serious eye damage.

Ingestion - May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics - severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects Acute toxicity, see below:

Components Species Test Results - Sodium hypochlorite (CAS 7681-52-9).

Skin corrosion/irritation - Causes skin irritation.

Exposure minutes - Not available.

Erythema value - Not available.

Oedema value - Not available.

Serious eye damage/eye - Causes serious eye damage.

Corneal opacity value - Not available.

Iris lesion value - Not available.

Respiratory sensitization - Not a respiratory sensitizer.

Skin sensitization - This product is not expected to cause skin sensitization.

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

Carcinogenicity

IARC Monographs

Overall Evaluation of Carcinogenicity: Sodium hypochlorite (CAS 7681-52-9).

Volume 52 - 3 Not classifiable as carcinogenic to humans.

OSHA Specifically regulated Substances (29 CFR 1910.1001-1052) - Not regulated.

US. National Toxicology Program (NTP) report on Carcinogens - Not listed.

Reproductive toxicity - This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity (single exposure): Not classified.

Specific target organ toxicity (repeated exposure): Not classified.

Aspiration hazard: Not an aspiration hazard.

Chronic effects: Not available.

Further information: Not available.

VS C-Beads

Routes of Exposure:

Inhalation: May be harmful if inhaled.

Skin contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through skin.

Ingestion: May be harmful if swallowed.

VS P-RBW Beads

Routes of Exposure:

Inhalation: May be harmful if inhaled

Skin contact: May cause skin irritation

Skin Absorption: May be harmful if absorbed through skin.

Ingestion: May be harmful if swallowed.

Vision Beads

Routes of Exposure:

Eye contact: May cause eye irritation and slight redness.

Inhalation: May be harmful if inhaled.

Skin contact: May cause skin irritation and temporary redness.

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Skin Absorption: Not applicable.

Ingestion: May be harmful if swallowed and may cause nausea, vomiting, gastrointestinal irritation and diarrhea.

Vision Live Suspension Solution

Information on toxicological effects: No data available.

Principal Routes of Exposure: No data available.

Acute toxicity:

Chemical	Species	Dosage	Result
Sodium Azide	Rat	45 mg/kg	LD50 Oral
	Rat	0.054-0.052 mg/l	LC50 Inhalation (4h)
	Mouse	27 mg/kg	LD50 Oral

Skin corrosion/irritation: No data available.

Serious eye damage/irritation: No data available.

Respiratory or skin sensitization: No data available.

Carcinogenicity: No ingredient on this product present at levels greater than or equal to 0.09% are identified as probable, possible, or confirmed as a human carcinogen by IARC,NTP,OSHA

Germ cell mutagenicity: Data insufficient for classification.

Reproductive toxicity: Data insufficient for classification.

Aspiration hazard: Data insufficient for classification.

SECTION 12: ECOLOGICAL INFORMATION

VS Sheath

Persistence and degradability: No data available.

Toxicity: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: No data available

VS Suspension Solution

Toxicity Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

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Mobility in soil: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects - No information available.

VS Clean

Ecotoxicity - This product is toxic to fish, aquatic invertebrates, oysters, and shrimp.

Components Species Test Results - Sodium hypochlorite (CAS 7681-52-9).

Persistence and degradability - Not available.

Bioaccumulative potential - Not available.

Mobility in soil - Not available.

Mobility in general - Not available.

Other adverse effects - Not available.

VS C-Beads

To the best of our knowledge, the ecotoxicological properties of this mixture have not been fully investigated. However, the liquid may be harmful to the environment depending on the quantity and dilution involved.

VS P-RBW Beads

To the best of our knowledge, the ecotoxicological properties of this mixture have not been fully investigated. However, the liquid may be harmful to the environment depending on the quantity and dilution involved.

Vision Beads

Toxicity:

Not expected to be harmful to aquatic organisms. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Product name	Species	Exposure limit and time	Result
Sodium Azide	Fish	2.75mg/l for 96 hrs	Acute LC50
	Algae	0.35 mg/l for 96 hrs	Acute ErC50

Vision Live Suspension Solution

Toxicity:

Product name	Species	Exposure limit and time	Result
Sodium Azide	Fish	2.75mg/l for 96 hrs	Acute LC50
	Algae	0.35 mg/l for 96 hrs	Acute ErC50

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Mobility in soil: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

VS Sheath

Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of an unused product.

VS Suspension Solution

Waste treatment methods-

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues.

This material and its container must be disposed of according to approved disposal technique.

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class - Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the SDS contains all the information required by the CPR.

National Regulations - Not regulated.

VS Clean

Classification Method: Not regulated as dangerous goods.

Waste from residues/unused products-

Contaminated packaging: Collect and reclaim or dispose in sealed containers at licensed waste disposal sites. Do not allow this material to drain into sewers/water supplies.

Do not contaminate ponds, waterways or ditches with chemicals or used containers. Dispose of contents/container in accordance with local/regional/national/international regulations.

IF EMPTY: Nonrefillable container. Do not reuse or refill the container. Offer for recycling, if available. 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.

Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

VS C-Beads

Methods of disposal must meet all local, federal, and state laws.

IATA, IMO/IMDG, ADR/RID, US-DOT: Not classified as hazardous for any mode of transport.

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VS P-RBW Beads

Methods of disposal must meet all local, federal, and state laws.

IATA, IMO/IMDG, ADR/RID, US-DOT: Not classified as hazardous for any mode of transport.

Vision Beads

Methods of disposal must meet all local, federal, and state laws.

IATA, IMO/IMDG, ADR/RID, US-DOT: Not classified as hazardous for any mode of transport.

Vision Live Suspension Solution

Waste treatment methods: This material and its container must be disposed of according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional, or national/federal regulations. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 14: REGULATORY INFORMATION**VS Sheath**

OSHA Hazards: No known OSHA hazards.

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

SARA 313 Components

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 II, Section 313.

SARA 311/312 Hazards: No SARA Hazards.

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

EU regulations: This product is not classified according to the EU regulation.

VS Suspension Solution

US Federal Regulations SARA 313-

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61: This product does not contain HAPs.

US State Regulations: California Proposition 65.

Hazard statement: Causes skin irritation. Causes serious eye damage.

VS Clean**UNITED STATES**

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

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals : Danger, Corrosive.

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling.

Avoid breathing vapors and use only in a well-ventilated area. Remove and wash contaminated clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS

The product contains a strong oxidizer. Always flush drains before and after use. Do not use or mix with acids or products containing ammonia. To do so will release hazardous irritating gasses.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Sodium hypochlorite (CAS 7681-52-9) Listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302: Extremely No hazardous substance.

SARA 311/312 Hazardous: Yes.

Classified hazard categories: SARA 313 (TRI reporting) - Not regulated.

Other federal regulations: Skin corrosion or irritation: Serious eye damage or eye irritation.

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.

Food and Drug Administration (FDA) - Not regulated.

US state regulations, see below:

U.S. Illinois Chemical Safety Act: Listed substance - Sodium hypochlorite (CAS 7681-52-9)

U.S. Louisiana Spill Reporting: Listed substance - Sodium hypochlorite (CAS 7681-52-9) Listed.

U.S. Minnesota Haz Subs: Listed substance - Sodium hypochlorite (CAS 7681-52-9) SODIUM HYPOCHLORITE.

US. California Controlled Substances

CA Department of Justice (California Health and Safety Code Section 11100) - Not listed.

U.S. Massachusetts RTK - Substance List Sodium hypochlorite (CAS 7681-52-9).

US. New Jersey Worker and Community Right-to-Know Act - Sodium Hypochlorite (CAS 7681-52-9).

U.S. Pennsylvania Worker and Community Right-to-Know Law - Sodium hypochlorite (CAS 7681-52-9)

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VS C-Beads

Regulatory Information: Manufactured for Research use only. Not subjected to TSCA.

VS P-RBW Beads

US (TSCA) Manufactured for Research Use only.

Note: Chemical substances that are manufactured or imported in small quantities solely for the use in Research and Development are not subject to the notification requirements of the Toxic Substance Control Act (TSCA), 15 USC 2604 (h) et seq. Reference – 40CFR720.36 CAS# 026628-22-8 is listed on the TSCA Inventory.

Vision Beads

Regulatory Information: Manufactured for Research use only.

US Federal Regulations:

Chemical	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
Sodium Azide	26628-22-8	Yes	1000 lb/ 454 kg	Toxic Chemical: Yes	minimum concentration: 1%

US State Regulations:

New Jersey

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

New York

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Massachusetts

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Pennsylvania

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

California

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Louisiana

Sodium Azide 26628-22-8

Minnesota

Sodium Azide 26628-22-8

Rhode Island

Sodium Azide 26628-22-8

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Vision Live Suspension Solution

US Federal Regulations:

SARA 302,313/311/312 Classification: Acute Health Hazard

Chemical	Cas #
Sodium Azide	26628-22-8

US State Regulations:

New Jersey-

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

New York-

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Massachusetts-

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Pennsylvania-

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

California-

Sodium Azide 26628-22-8

Sodium Phosphate 7558-79-4

Louisiana-

Sodium Azide 26628-22-8

Minnesota-

Sodium Azide 26628-22-8

Rhode Island-

Sodium Azide 26628-22-8

SECTION 15: OTHER INFORMATION

Text of hazard category Codes, hazard statements, and R-phase(s) H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

Aquatic Acute 1. Hazardous to the aquatic environment, acute, category 1 H400. Very toxic to aquatic life.

Aquatic Chronic 1. Hazardous to the aquatic environment, chronic, category 1H410. Very toxic to aquatic life with long lasting effects.

T+. Very Toxic.

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R28. Very toxic if swallowed.

R32. Contact with acids liberates very toxic gas.

N. Dangerous to the environment.

R50-53. Very toxic to aquatic organisms, may cause long-term adverse guidance for this product.

DISCLAIMER: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Thinkcyte, shall not be held liable for any damage resulting from handling or from contact with the above product.

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