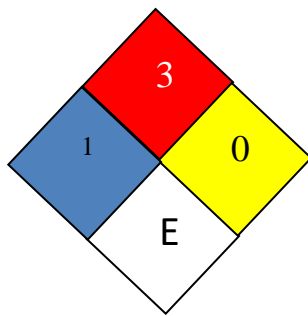


MATERIAL SAFETY DATA SHEET

VOX-04 ANTI-MICROBIAL THIN FILM NANO-COATING FOR SURFACE PROTECTION

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name : VOX-04
 Use : Antimicrobial Surface coating
 Address : 661, industrial area, phase 2, Chandigarh
 Emergency : +918146406466



HEALTH	1
FIRE	3
REACTIVITY	0
PERSONAL PROTECTION	E

2. HAZARD IDENTIFICATION

This material is an Over-The-Counter consumer product that is safe for consumers/workplaces with intended and reasonably foreseeable use. Please follow label instructions.

NOTE: Warnings below are for exposure to large quantities of the product. Normal usage should not create a hazardous condition. Once the product is used and a coating is done on the surface. It gets dry, forming a nano thin layer. The coating formed is nontoxic and nonflammable.

Flammable liquids
 Warning
 Flammable liquid and vapor
 Appearance
 Liquid Odor



Category 3
 Hazard Statements
 Aqueous solution Physical state
 Alcohol Odor

Precautionary Statements—Prevention

Keep away from heat/sparks/open flames/hot surfaces-----No Smoking.
Do not use in eyes.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements—Quick Response

In case of fire: Use CO₂, dry chemical, or foam for extinction.

Precautionary Statements—Storage

Stored in a well-ventilated place. Keep Cool.

3. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterization : isopropyl alcohol, double distilled water,
Functionalized Copolymers, Bimetal antimicrobial
Nanoparticles
Hazardous Ingredients : alcohol

4. FIRST AID MEASURES

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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin (hair)

with water/shower with soap. If skin irritation persists: Get medical advice/attention.

IF INGESTION: Wash out mouth with water provided person is Conscious. Get medical advice/attention.

IF INHALED, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5. FIREFIGHTING MEASURES

Extinguishing Data	:	Carbon Dioxide, Dry Chemical Powder, Polymer Foam
Unusual Firefighting Hazards	:	Capable of creating an explosion

Specific hazards arising from the chemical Flammable.

If lid/cap kept open for long duration without proper ventilation, vapors may travel to source of ignition and flash back.

Hazardous combustion products	:	Carbon Monoxide. Carbon Dioxide (CO ₂).
Explosion Data		
Sensitivity to Mechanical Impact	:	None
Sensitivity to Static Discharge	:	May be ignited by friction, heat, Sparks or flames.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	:	Wear respirator, chemical safety goggles, rubber boots and gloves.
Precautions to the Environment	:	Sweep up, place in a bag and hold for waste disposal.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, vermiculite) and place in container for disposal according to local/national regulations.

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks or flames. Collect spillage. Soak up with inert absorbent material. Sweep up

and shovel into suitable containers for disposal. Following product recovery, flush area with water. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Keep away from heat sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Incompatible Materials keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store between 40 to 100°F.

Incompatible materials

Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium hypochlorite and ammonia causing fire and other hazard.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls Appropriate Engineering Controls

Engineering Controls

Showers, eye wash stations, ventilation system.

Individual Protection Measures, such as personal protective equipment Eye/Face protection Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves. Rubber gloves. Normal work clothing (long sleeved shirt and long pants) is recommended. Apron is recommended.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Specification/Requirement
Appearance	White to off-white liquid
Dispersion	Poly
Precipitates	Less than 2%

Odor : Mild Alcohol
 pH : 5.0-7.0
 Freezing Point : No Information
 Boiling Point : No Information
 Flash Point : No Information

10. STABILITY AND REACTIVITY

Stability : Completely stable under Recommended storage conditions
 Reactivity : Non-Reactive/ Non Soluble

Chemical Stability

Possibility of hazardous reactions is none under normal processing.

Conditions to avoid

Heat, flames and sparks, extreme temperature conditions. Heat, sparks, open flame, other ignition sources

Incompatible materials

Reacts with strong oxidants such as nitric acid and silver nitrate causing fire or explosion hazard. Reacts slowly with calcium, hypochlorite and ammonia causing fire or may be explosion.

11. TOXICOLOGICAL INFORMATION

Possible Health Effects

Skin : High concentration and prolonged contact may cause irritation
 Eyes : Irritation
 Inhalation : Inhalation of vapors in high concentration may cause irritation of respiratory system, dizziness, nausea, headache
 Toxicity : Non-Toxic
 Ingestion : May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)		
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h

12. ECOLOGICAL IMPACT

Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
 No Negative Ecological Impact, Data not Available

Bioaccumulation

Chemical Name	Partition Coefficient
Isopropyl alcohol	0.05

13. WASTE DISPOSAL

Waste treatment methods Disposal should be in accordance with applicable regional, national, and local laws and regulations.
 Contaminated packaging Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Product Code : 04
 CAS : N/A
 Proper Shipping Name : VOX-04 ANTI-MICROBIAL THIN FILM
 NANO-COATING FOR SURFACE
 PROTECTION
 Packing group : Chemical Packing
 Transport information : N/A

15. OTHER REGULATORY INFORMATION

Other Classifications: Surface Antimicrobial nanocoating:

Antiviral, Antifungal, Antibacterial

FDA – Compliance

CE – Compliance

WHO-GMP-Compliance

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC):

R36- Irritating to eyes

S2- Keep out of the reach of children

S46- If swallowed, seek medical advice immediately & show container or label

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 3

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

16. OTHER INFORMATION

References: Not available

Other Special Considerations: Not available

Prepared by : Technical Department
Revision Date : August 10, 2021
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Revision Note : IATA info

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End of Safety Data Sheet.