



1. IDENTIFICATION

PRODUCT NAME: Kymax PVDF Fluoropolymer Coating White

MANUFACTURER: GAF

ADDRESS: 1 Campus Drive, Parsippany, NJ 07054

24-HOUR EMERGENCY PHONE (CHEMTREC): 800 – 424 – 9300

INFORMATION ONLY: 877 – GAF – ROOF

PREPARED BY: Corporate EHS

2. HAZARDS IDENTIFICATION

Label elements

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity

Category 2

Pictogram:



Signal word: Warning

Hazard statement(s)

Suspected of causing cancer.

Precautionary Statements - Prevention

Obtain, read and follow all safety precautions before use.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Collect spillage.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point in accordance with local regulations.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse eyes with water for several minutes.

Hazards not otherwise classified (HNOC)

Not applicable.

Other Information

Unknown acute toxicity.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Direct contact with the eyes may cause temporary irritation.

SKIN: No known significant effects or critical hazards

INGESTION: No known significant effects or critical hazards.

INHALATION: No known significant effects or critical hazards.

ACUTE HEALTH HAZARDS: No known significant effects or critical hazards.

CHRONIC HEALTH HAZARDS: None known.

CARCINOGENICITY: IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Percent
Titanium dioxide	13463-67-7	10-20
Texanol Ester Alcohol	6846-50-0	1-5

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Skin contact Wash with plenty of soap and water.

Inhalation Remove person to fresh air and keep in a comfortable position for breathing.

Ingestion Call a poison control center or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed Slight irritation of eyes and skin.

Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.

Note to physicians Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment including water fog, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Toxic fumes may be released.

Explosion data

In a fire or if heated, a pressure increase will occur and the container may burst.

Sensitivity to Static Discharge

None.

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. Isolate materials not yet involved in the fire and protect personnel. Move containers from the fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for containment

Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see section 13).

Methods for cleaning up

Stop leak if without risk. Move containers from the spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. For exterior use only. Do not use indoors. Put on appropriate personal protective equipment (see section 8 of SDS). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in original container protected from direct sunlight in a dry, cool and well-ventilated area.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Titanium Dioxide**

USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA	1 mg/m ³
Remark	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
Regulatory Reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
OSHA PEL	15 mg/m ³
Regulatory Reference	OSHA Table Z-1

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Adequate ventilation

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses or chemical goggles as appropriate to prevent eye contact.

Skin and body protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times. Wear suitable protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state and color White liquid with a mild odor.

<u>Property</u>	<u>Values</u>
pH	7.8 - 8.4
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	> 100 deg C > 212 deg F
Evaporation rate	No information available
Flammability (solid, gas)	Non-Flammable
Flammability Limit in Air	
Upper flammability limit:	Non-Flammable
Lower flammability limit:	Non-Flammable
Vapor pressure	No information available
Density	1.2 g/ml
Specific Gravity	No information available
Water solubility	Moderately soluble
Autoignition temperature	No information available
Decomposition temperature	No information available
Explosive properties	Not applicable
Oxidizing properties	No information available
VOC Content	< 50 g/L

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None under recommended storage and handling conditions.

Incompatible materials

No additional information available.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Titanium dioxide

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Not classified pH: 7.8 – 8.4

Serious eye damage/irritation : Not classified pH: 7.8 – 8.4

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer. IARC group 2B - Possibly carcinogenic to humans.

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

12. ECOLOGICAL INFORMATION

Titanium dioxide

LC50 fish 1	> 300 mg/l (Danio rerio, Fresh water, Literature study, Nominal concentration)
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

Ecotoxicity

No information available..

Persistence and degradability

Not readily biodegradable

Bioaccumulation

No information available.

Other adverse effects

No known significant or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Contaminated packaging Do not reuse containers.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

15. REGULATORY INFORMATION

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.15.2. International regulations

California Proposition 65

This product contains titanium dioxide which is known to the state of California to cause cancer.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X

ADDITIONAL COMMENTS: None.

DATE OF PREVIOUS SDS: 5/2023

CHANGES SINCE PREVIOUS SDS: Name change.

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