

Fluonox Peroxide curable raw gum

Gujarat Fluorochemicals Ltd.

Version No: 3.3

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 0

Issue Date: 02/06/2018 Print Date: 02/06/2018 S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

| Product name | Fluonox Peroxide curable raw gum | |
|-------------------------------|---|--|
| Chemical Name | vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene | |
| Synonyms | KR320P, KR340P, KR520P, KR545P, KR565P, KR525LP | |
| Other means of identification | Not Available | |

Recommended use of the chemical and restrictions on use

| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|
|--------------------------|---|

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | Gujarat Fluorochemicals Ltd. |
|-------------------------|--|
| Address | 12/ A GIDC Dahej Industrial Estate India |
| Telephone | +91-2641-618333 |
| Fax | +91-2641-618012 |
| Website | www.gfl.co.in; www.fluonox.co.in |
| Email | contact@gfl.co.in |

Emergency phone number

| Association / Organisation | Gujarat Fluorochemicals Itd |
|-----------------------------------|-----------------------------|
| Emergency telephone numbers | +91-2641-618080-81 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

| Classification | Not Applicable |
|---------------------|----------------|
| Label elements | |
| Hazard pictogram(s) | Not Applicable |
| | |
| SIGNAL WORD | NOT APPLICABLE |

Hazard statement(s)

Not Applicable

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

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Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|---|
| 25190-89-0 | >99 | vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene |

SECTION 4 FIRST-AID MEASURES

| ription of first aid measure | s |
|------------------------------|---|
| Eye Contact | If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. For THERMAL burns: Do NOT remove contact lens Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye. Seek urgent medical assistance, or transport to hospital. |
| Skin Contact | If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Flush skin and hair with running water to burn either by immersion or wrapping with saturated clean cloth. D NOT remove or cut away clothing ower burnt areas. DO NOT pull away clothing which has acheerd to the skin as this can cause further injury. D NOT break blister or remove solidified material. Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. DO NOT apply ointensts, oils, butter, etc. to a burn under any circumstances. Vater may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances. Reassure. Reassure. Freat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. For thermab burns: Decontaminate area around burn. Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or ointments; this may cause infection. Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available. Do NOT apply ice as this may lower body temperature and cause further damage. Do NOT preak blisters or apply butter |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| | ▶ Immediately give a glass of water. |

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Indication of any immediate medical attention and special treatment needed

For other related polyfluorinated polymers:

Pyrolysis products of this material have been known to produce an influenza-like syndrome in man, lasting 24-48 hours.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Foam
- Dry chemical powder
- BCF (where regulations permit).
- Carbon dioxide

Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves
- Prevent, by any means available, spillage from entering drains or water courses.
- Use water delivered as a fine spray to control fire and cool adjacent area.

- ▶ Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.
- ▶ Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).
- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.

Fire/Explosion Hazard

carbon monoxide (CO)

Combustion products include:

carbon dioxide (CO2)

hydrogen fluoride(HF)

other pyrolysis products typical of burning organic material.

CARE: Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.

- ▶ For related polyfluorinated polymers does not burn without an external flame
- ▶ WARNING: Wear neoprene gloves when handling refuse from fire where polyfluorinated polymers was present.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. |
|--------------|---|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator. Prevent spillage from entering drains, sewers or water courses. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Safe handling

Precautions for safe handling

It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns.

Fumes or vapours emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin. Limit all

- unnecessary personal contact
 - ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.

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 Avoid contact with incompatible materials. Drganic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise • airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Store in original containers. Keep containers securely sealed. Other information Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers.

| Conditions for safe storage, including any incompatibilities | | |
|--|---|--|
| Suitable container | Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. | |
| Storage incompatibility | Avoid contamination of water, foodstuffs, feed or seed. For other related polyfluorinated polymers: Avoid storage with strong oxidising agents, tetrafluoroethylene, hexafluoroethylene, perfluoroisobutylene, carbonyl fluoride and hydrogen fluoride. | |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|---|---------------|---------------|---------------|---------------|
| Fluonox Peroxide curable raw gum | Not Available | Not Available | Not Available | Not Available |
| | | | | |
| Ingredient | Original IDLH | | Revised IDLH | |
| vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene | Not Available | | Not Available | |

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

For molten materials:

Appropriate engineering controls

Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material. Keep dry!!

Processing temperatures may be well above boiling point of water, so wet or damp material may cause a serious steam explosion if used in unvented equipment.

For other related polyfluorinated polymers:

In processes such as extrusion moulding, engineering controls should be designed to draw thermal degeneration products from the workers breathing zone.

NOTE: When hydrogen fluoride is first detected continue to run equipment with the heat source to the polymer turned off. Ventilate the area and remove non-essential personnel from the area. In case of a major decomposition event evacuate all personnel immediately

Personal protection









Eye and face protection

- ▶ Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

Skin protection

See Hand protection below

Personal hygiene is a key element of effective hand care.

- ▶ When handling hot materials wear heat resistant, elbow length gloves.
- Rubber gloves are not recommended when handling hot objects, materials
- Protective gloves eg. Leather gloves or gloves with Leather facing

Hands/feet protection

Neoprene rubber gloves

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butyl rubber.

Body protection

See Other protection below

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- ▶ When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
- Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure.
- ▶ CAUTION: Vapours may be irritating.

No special equipment needed when handling small quantities. Other protection

OTHERWISE:

- Overalls.
- ▶ Barrier cream.
- Eyewash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES | A P1 Air-line* | - | A PAPR-P1 |
| up to 50 x ES | Air-line** | A P2 | A PAPR-P2 |
| up to 100 x ES | - | A P3 | - |
| | | Air-line* | - |
| 100+ x ES | - | Air-line** | A PAPR-P3 |

^{* -} Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | Use may require material be molten. Molten or heated material may be compounded, moulded or extruded. | | |
|--|---|---|----------------|
| Physical state | Solid | Relative density (Water = 1) | 1.80-2.10 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Not Available | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|------------------------------------|---|
| Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

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SECTION 11 TOXICOLOGICAL INFORMATION

| | The material is not thought to produce adverse health off- | acts or irritation of the recoiretery tract (s | e classified by EC Directives using spiral models) | |
|---|--|--|---|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. At temperatures of over 400 deg. C the polymer begins to decompose with the reaction becoming faster as temperature rises. Fumes from burning materials containing fluorinated irritate the upper airway and may be harmful if exposure is prolonged. Overheated or burnt fluorinated polymers releases hydrogen fluoride (a highly irritating and corrosive gas) and small amounts of carbonyl fluoride (highly toxic | | | |
| | Processing for an overly long time or processing at overly eyes, nose, throat, causing red itching eyes, coughin Not normally a hazard due to non-volatile nature of p | g, sore throat. | on and release of highly irritating vapours, which irritate | |
| Ingestion | Overexposure is unlikely in this form. The material has NOT been classified by EC Directiv the lack of corroborating animal or human evidence. High molecular weight material; on single acute exposure Occasionally accumulation of the solid material within the | would be expected to pass through gas | trointestinal tract with little change / absorption. | |
| Skin Contact | * ' | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Molten material is capable of causing burns. | | |
| Еуе | | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. | | |
| Chronic | Long-term exposure to the product is not thought to panimal models); nevertheless exposure by all routes Exposure of some experimental animals by local inj Repeated administration of 25% PFA produced liver This product contains a polymer with a functional gro listed as high risk. | should be minimised as a matter of cection showed persistent chronic infland testicular changes but subseque | ourse. ammatory reaction on histology of the sites taken. ent studies did not reproduce these effects. | |
| Fluonox Peroxide curable | TOXICITY | IRRITATION | | |
| raw gum | Not Available | Not Available | | |
| vinylidene fluoride/ | TOXICITY | IRRITATION | | |
| hexafluoropropene/ tetrafluoroethene | Not Available | Not Available | | |
| Legend: | Nalue obtained from Europe ECHA Registered Sul otherwise specified data extracted from RTECS - Registered Sulphin RTECS - Re | | | |
| | 1 | | | |
| VINYLIDENE FLUORIDE/ HEXAFLUOROPROPENE/ TETRAFLUOROETHENE | No significant acute toxicological data identified in lite | rature search. | | |
| Acute Toxicity | 0 | Carcinogenicity | 0 | |
| Skin Irritation/Corrosion | 0 | Reproductivity | 0 | |
| | | | | |
| Serious Eye Damage/Irritation | 0 | STOT - Single Exposure | 0 | |
| Serious Eye Damage/Irritation Respiratory or Skin sensitisation | 0 | STOT - Single Exposure STOT - Repeated Exposure | 0 | |

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| Fluonox Peroxide curable raw gum | ENDPOINT Not Available | TEST DURATION (HR) Not Available | SPECIES Not Available | VALUE Not Available | SOURCE Not Available |
|---|------------------------------|-----------------------------------|------------------------|---------------------------|----------------------------|
| vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene | ENDPOINT Not Available | TEST DURATION (HR) Not Available | SPECIES Not Available | VALUE Not Available | SOURCE Not Available |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For other related polyfluorinated polymers:

Ecotoxicity is expected to be low based on the near zero water solubility of the polymer. Material is considered inert and is not expected to e biodegradable or toxic.

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Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|---------------------------------------|
| | No Data available for all ingredients |

Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | No Data available for all ingredients |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant NO

Inland waterways transport (ADN)

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

VINYLIDENE FLUORIDE/ HEXAFLUOROPROPENE/ TETRAFLUOROETHENE(25190-89-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

| Flammable (Gases, Aerosols, Liquids, or Solids) | No |
|---|----|
| Gas under pressure | No |
| Explosive | No |
| Self-heating | No |
| Pyrophoric (Liquid or Solid) | No |
| Pyrophoric Gas | No |
| Corrosive to metal | No |
| Oxidizer (Liquid, Solid or Gas) | No |
| Organic Peroxide | No |
| Self-reactive | No |
| In contact with water emits flammable gas | No |
| Combustible Dust | No |
| Carcinogenicity | No |
| Acute toxicity (any route of exposure) | No |
| Reproductive toxicity | No |
| Skin Corrosion or Irritation | No |
| Respiratory or Skin Sensitization | No |
| Serious eye damage or eye irritation | No |
| | |

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| Specific target organ toxicity (single or repeated exposure) | |
|--|--|
| Aspiration Hazard | |
| Germ cell mutagenicity | |
| Simple Asphyxiant | |

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

| National Inventory | Status |
|-------------------------------|---|
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene) |
| China - IECSC | Y |
| Europe - EINEC / ELINCS / NLP | N (vinylidene fluoride/ hexafluoropropene/ tetrafluoroethene) |
| Japan - ENCS | Y |
| Korea - KECI | Y |
| New Zealand - NZIoC | Y |
| Philippines - PICCS | Y |
| USA - TSCA | Υ |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

| Revision Date | 02/06/2018 |
|---------------|------------|
| Initial Date | 02/06/2018 |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible \ Concentration-Short \ Term \ Exposure \ Limit}$

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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