



SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

ARYSTA LifeScience South Africa (Pty) Ltd
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Substance: terpenic polymer
 Product Name: **SPRAYFILM 10**
 Product Use: Sticker and Spreader Adjuvant
 Creation Date: Oct 2006
 Revision Date: August 2017

24 Hr Emergency Number:

In case of Poisoning:

Poisons Helpline 0861 555 777

In case of Spillage:

HAZMAT: 0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: terpenic polymer
Chemical name: bicyclo[3.1.1]hept-2-ene, 2,6,6 trimethyl, polymer with 6,6- dimethyl-2- methylenebicyclo [3.1.1]heptane
Other Name: pinene polymer, Copolymer of alpha- and beta-pinene, pinolene, terpenic polymer
CAS №.: [31393-98-3]
Chemical Family: terpenes, pinene polymer
Use: A non-ionic sticker and spreader designed for use with insecticides, herbicides, fungicides and foliar fertilizers and as such prolongs the life of the spray.
Formulation: terpenic polymer: 902,4 g/l (96 % w/w)
 Emulsifies in water
Hazardous Ingredient:

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Terpenic polymer		± 96 % (w/w)
Other inerts	not of concern	± 4 % (w/w)

Symbol: Xi
Indication of danger: Irritant
Risk Phrases: R36/37/38, R51

SECTION 3 - HAZARD IDENTIFICATION

Alpha- and beta-pinene are of low acute toxicity via the oral, dermal and inhalation routes.

Eye contact: May cause mild eye irritation.

Skin contact: May cause minor irritation to the skin. Repeated and prolonged skin contact may lead to sensitization.

Ingestion: Moderately toxic. May cause vomiting.

Inhalation: Vapour and mists may cause irritation to mucous membranes and respiratory tract. May cause headaches.

Effects of overexposure: Redness, stinging, swelling or itching of skin and eyes can occur. Ingestion of large quantities may result in nausea, vomiting and diarrhea.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

Immediately remove source of contamination or move victim to fresh air. Keep person warm and at rest. Treat symptomatically and supportively as and when required. If irritation persists, seek medical advice immediately.

MATERIAL SAFETY DATA SHEET

**Skin contact:**

Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). Seek medical advice if necessary. Persons who become sensitized may require specialized medical management with anti-inflammatory agents.

Eye contact:

Immediately flush the eyes with gently flowing lukewarm water or sodium bicarbonate solution for 20 to 30 minutes, occasionally lifting the upper and lower lids. If irritation persists, seek medical advice immediately.

Ingestion:

Do not induce vomiting. Victim should drink large quantities of water. Never induce vomiting or give anything to drink to an unconscious person. Get medical advice if significant quantity has been ingested.

Advice to physician:

Treat symptomatically and supportively.

SECTION 5 - FIRE-FIGHTING MEASURES**Fire hazard and explosion hazard:**

Not Flammable. Flash point: 132 °C. Combustible.

Extinguishing agents:

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire-fighting for later disposal.

Avoid the accumulation of polluted run-off from the site.

Fire fighting:

Remove spectators from surrounding area. Remove container from fire area if possible without risk. Eliminate all ignition sources in immediate area. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Keep upwind.

This product will emit toxic fumes when burned.

Personal protective equipment:

Fire-fighters and others that may be exposed should wear full protective impervious clothing, including gloves and eye protection, and self-contained breathing apparatus. Contact with the fumes and vapours should be avoided by staying upwind.

Clean all clothing before re-use. Severely contaminated clothing cannot be adequately decontaminated, and must be disposed as a hazardous waste. Shower with soap and water after contact with this product.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)**Personal precautions:**

Do not inhale fumes. Avoid contact with skin, eyes or clothes. Ventilate area of spill or leak, especially confined areas. For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS**Handling:**

Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

Keep out of reach of unauthorized persons, children and animals. Store in its original labelled container in shaded, well-ventilated area. Store in dry area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

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SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

Clothing:

Employee must wear appropriate protective (impervious) clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Gloves:

Employee must wear appropriate chemical resistant protective gloves to prevent contact with this substance.

Respirator:

When handling the product and when preparing the spray mixture, wear a face shield. It is usually safe to use the product without respirator. If the product is used in dusty or confined conditions or when in spillage and fire conditions, a respirator suitable for protection from dusts and mists of pesticides is adequate.

Eye protection:

The use of safety goggles (full-face shield) is recommended.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous, amber liquid
Odour:	Mild 'terpene-like' odour.
Flash point:	132 °C
Specific gravity:	0.94 ± 0,05
Solubility:	Forms emulsion in water.
pH:	7,48

SECTION 10 - STABILITY AND REACTIVITY

Storage stability:

Stable for up to 2 years under normal warehouse and field conditions in original packaging. Avoid contact with strong oxidizing agents. Protect the product from sunlight, open flame and sources of heat.

Stability:

Avoid extreme heat and contact with incompatible materials. Polymerization will not occur.

Decomposition products:

This material may decomposes and produce oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: > 3000 mg/kg in rats.

Acute eye irritation: May cause mild irritation.

Acute skin irritation: May cause minor irritation.

Sensitization:

Repeated and prolonged contact may lead to sensitization.

Inhalation:

Vapour and mists may cause irritation to mucous membranes and respiratory tract.

Carcinogenic effects: No data available.

Teratogenic effects: No data available.

Mutagenic effects: No data available.

Reproductive effects and Carcinogenic effects:

Alpha- and beta-pinene are not structurally related to any known developmental/reproductive toxicants or related to any known carcinogen.

Other effects:

Alpha- and/or beta-pinene polymers should be of even lower toxicity than pure alpha- and beta-pinene.

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SECTION 12 - ECOLOGICAL INFORMATION

Environmental Effects:

Readily biodegradable.

Terpenes are widespread in nature, mainly in plants as constituents of essential oils.

Neither alpha- nor beta pinene are persistent in the environment. Given the rapid degradation of alpha- and beta-pinene, it is unlikely to be present in any significant amounts in sources of drinking water.

As alpha-pinene and beta-pinene are toxic to fish, this product may be also toxic to fish.

Avoid contamination of waterways.

SECTION 13 - DISPOSAL CONSIDERATION

Pesticide and container disposal:

Open dumping or burning of this product is prohibited. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose. Destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

SECTION 14 - TRANSPORT INFORMATION

Not regulated.

UN No.: Not regulated

SECTION 15 - REGULATORY INFORMATION

Symbol: Xn

Indication of danger: Harmful

Risk phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 51 Toxic to aquatic organisms.

Safety phrases:

S 2 Keep out of the reach of children.

S 23 Do not breathe vapour/spray.

S 24/25 Avoid contact with skin and eyes.

S 56 Dispose of this material and its container to hazardous or special waste collection point.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 16 - OTHER INFORMATION

Packaging:

Packed in 100 ml and 1, 5 & 20 l fluorinated plastic containers and labelled according to South African regulations and guidelines.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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