



Bonide A Complete Fruit Tree Spray

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Bonide A Complete Fruit Tree Spray
Product code : 4122

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fungicide, Insecticide

1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

Telephone Number: (315) 736-8231

Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: www.bonide.com

Email address: sales@bonide.com

1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226
Aspiration 1 H304
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Irrit. 2 H319
STOT SE 3 H335
Carcinogen 2 H351

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P233 - Keep container tightly closed.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing mist, vapors, or spray.
P264 - Wash exposed skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing, protective gloves, and eye protection.
P308 + P313 If exposed or concerned: Get medical advice.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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P331 – Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
P333+P313 - If skin irritation or rash occurs: Get medical advice.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice.
P370+P378 - In case of fire: Use foam, dry powder, Carbon dioxide foam, or sand. for extinction
P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 – Store locked up.
P501 - Dispose of contents/container to in accordance with local and national regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|-------------------------------------------------------------------------------------------------------------------|--------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Petroleum Distillates | Mixture | 70-76 | Skin Irrit. 2, H315 Asp. Tox. 1, H304 |
| Trimethylbenzenes | Mixture | 35-40 | Flam. Liq. 3, H226 Acute Tox 4 (Oral), H302 Acute Tox 4 (Dermal), H312 Acute Tox 4 (Inhalation: vapors), H332 Asp. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Captan (Component) | (CAS No) 133-06-2 | 11.76 | Acute Tox. 4 (Inhalation:dust,mist), H332 |
| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] | (CAS No) 121-75-5 | 6.0 | Skin Sens. 1, H317 |
| Cumene | (CAS No.) 98-82-8 | 1-5 | Flam. Liq. 3, H226 Asp. 1, H304 STOT SE 3, H335 Carc. 2, H351 |
| Mixed Xylenes | Mixture | 1-5 | Flam. Liq. 3, H226 Asp. 1, H304 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: vapors), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Carbaryl | (CAS No) 63-25-2 | 0.30 | Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Assure fresh air breathing. Allow the person to rest. If breathing difficulty or symptoms occur, get medical attention.
- First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation or rash occurs seek medical attention. Get medical advice. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse with plenty of water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Do NOT induce vomiting. Obtain immediate medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Causes skin and eye irritation. Causes respiratory tract irritation. May cause an allergic skin reaction. Aspiration hazard – may be fatal if ingested and enters airways. Suspected of causing cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Get immediate medical attention for ingestion.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam, dry powder, Carbon dioxide foam, or sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Vapors may be heavier than air and travel to a remote ignition source and flash back.
Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. Ventilate spill area thoroughly with ignition proof equipment.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Avoid breathing mist, vapors, or spray.
Hygiene measures : Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from children. Keep in fireproof place. Keep container tightly closed.
Incompatible products : Strong bases. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petroleum Distillates

None Established

Trimethylbenzenes

| | | |
|-----------|-----------------|--------|
| USA ACGIH | ACGIH TWA (ppm) | 25 ppm |
|-----------|-----------------|--------|

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| Captan (133-06-2) | | |
|--------------------------|--------------------------------|---------------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 5 mg/m ³ (Inhalable) |

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | | |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ (IFV) |
| USA OSHA | OSHA PEL (mg/m ³) | 15 mg/m ³ (Total dust) |

| Cumene | | |
|---------------|--------------------------------|---------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 50 ppm |
| USA OSHA | OSHA PEL (ppm) | 50 ppm (skin) |

| Mixed Xylenes | | |
|----------------------|------------------|---------------|
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm (BEI) |
| USA ACGIH | ACGIH STEL (ppm) | 150 ppm |
| USA OSHA | OSHA PEL (ppm) | 100 ppm |

| Carbaryl (63-25-2) | | |
|---------------------------|--------------------------------|-----------------------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.5 mg/m ³ (IFV, BEI (Skin)) |
| USA OSHA | OSHA PEL (mg/m ³) | 5 mg/m ³ |

8.2. Exposure controls

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------|
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or safety glasses with side-shields. |
| Respiratory protection | : Wear approved respiratory protection to ensure that exposure is below the exposure limits.. |
| Other information | : When using, do not eat, drink or smoke. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------------------|---------------------|
| Physical state | : Liquid |
| Color | : Milky |
| Odor | : Aromatic |
| Odor threshold | : No data available |
| pH | : 5 - 6 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 41.6°C (107 °F) |
| Self ignition temperature | : 204 °C (399 °C) |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 0.97 |
| Solubility | : Soluble in water. |

SECTION 10: Stability and reactivity

10.1. Reactivity

Not normally reactive.

10.2. Chemical stability

Product is stable under normal use and storage conditions.

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10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Heat, sparks, open flame. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity :

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| LD50 oral rat | 5500 mg/kg |
| LD50 dermal rabbit | 4100 mg/kg (Rabbit) |

| Petroleum Distillates | |
|------------------------------|-----------------------|
| LD50 oral rat | > 5000 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h (Rat) |

| Captan (133-06-2) | |
|----------------------------|-----------------------|
| LD50 oral rat | 9000 mg/kg (Rat) |
| LD50 dermal rabbit | > 9000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | 1.12 mg/l/4h |

| Carbaryl (63-25-2) | |
|---------------------------|---------------------|
| LD50 oral rat | 230 mg/kg (Rat) |
| LD50 dermal rabbit | 2000 mg/kg (Rabbit) |

Skin corrosion/irritation : Causes skin irritation.
pH: 5 - 6

Serious eye damage/irritation : Causes serious eye irritation.
pH: 5 - 6

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity :

| Cumene | |
|---------------|--------------------------------------|
| IARC group | 2B – Possibly Carcinogenic to Humans |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Causes respiratory irritation. Causes drowsiness and dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| LC50 fish 1 | 0.10 mg/l (96 h; Lepomis macrochirus) |
| EC50 Daphnia 1 | 0.0008 mg/l (48 h; Daphnia pulex) |
| LC50 fish 2 | 0.17 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |

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| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| EC50 Daphnia 2 | 0.00036 mg/l (384 h; Daphnia magna) |
| TLM fish 1 | 0.24 mg/l (96 h; Phoxinus phoxinus; Pure water) |
| TLM fish 2 | 0.09 ppm (96 h; Lepomis macrochirus) |

| Petroleum Distillates | |
|------------------------------|---------------------------------------------------------|
| LC50 fish 1 | 2.1 - 4.2 mg/l (96 h; Lepomis macrochirus; Fresh water) |
| EC50 Daphnia 1 | 0.95 mg/l (48 h; Daphnia magna) |
| LC50 fish 2 | 2.34 mg/l (96 h; Oncorhynchus mykiss) |
| Threshold limit algae 1 | 1 mg/l (72 h; Skeletonema costatum; Growth) |

| Captan (133-06-2) | |
|--------------------------|---------------------------------------------------------|
| LC50 fish 1 | 0.0732 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| LC50 fish 2 | 0.141 mg/l (96 h; Lepomis macrochirus) |
| TLM fish 1 | 0.030 mg/l (24 h; Brachydanio rerio) |
| TLM fish 2 | 0.3 mg/l (48 h; Pisces) |

| Carbaryl (63-25-2) | |
|--------------------------------|-------------------------------------------------------------|
| LC50 fish 1 | 2 - 10.36 mg/l (96 h; Cyprinus carpio) |
| EC50 Daphnia 1 | 0.0064 mg/l (48 h; Daphnia pulex; Larvae) |
| EC50 other aquatic organisms 1 | 0.0076 mg/l (48 h; Simocephalus serrulatis) |
| LC50 fish 2 | 0.86 - 4.3 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| EC50 Daphnia 2 | 2.3 ppm (96 h; Mytilus edulis) |
| TLM fish 1 | 2.5 ppm (96 h; Oncorhynchus kisutch; Young) |
| TLM fish 2 | 5.5 ppm (96 h; Lepomis macrochirus) |
| Threshold limit algae 1 | 0.03 mg/l (Microcystis aeruginosa) |
| Threshold limit algae 2 | 1.4 mg/l (Scenedesmus quadricauda) |

12.2. Persistence and degradability

| Bonide A Complete Fruit Tree Spray | |
|-------------------------------------------|------------------|
| Persistence and degradability | Not established. |

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Persistence and degradability | Biodegradable in the soil. |

| Petroleum Distillates | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

| Captan (133-06-2) | |
|-------------------------------|-----------------------------------------------------------------------|
| Persistence and degradability | Readily biodegradable in water. Hydrolysis in water. Not established. |

| Carbaryl (63-25-2) | |
|---------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0 g O ₂ /g substance |

12.3. Bioaccumulative potential

| Bonide A Complete Fruit Tree Spray | |
|-------------------------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Log Pow | 2.36 - 2.89 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| Petroleum Distillates | |
|------------------------------|---------------|
| Log Pow | 2.9 - 6.1 |
| Bioaccumulative potential | Bioaccumable. |

| Captan (133-06-2) | |
|---------------------------|-------------------------------------------------------------------|
| Log Pow | 2.35 - 2.54 |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). Not established. |

| Carbaryl (63-25-2) | |
|---------------------------|---------------------------|
| BCF fish 1 | 140 (Ictalurus punctatus) |

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| Carbaryl (63-25-2) | |
|-------------------------------|------------------------------------------------|
| BCF other aquatic organisms 1 | 4000 (Algae) |
| BCF other aquatic organisms 2 | 260 (Crustacea) |
| Log Pow | 2.32 - 2.36 |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

| Malathion (ISO), 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate, [containing ≤ 0.03 % isomalathion] (121-75-5) | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Surface tension | 0.037 N/m (24 °C) |
| Ecology - soil | Toxic to bees. Not toxic to plants. |

| Captan (133-06-2) | |
|--------------------------|---------------------------------------------------------------------|
| Ecology - soil | Not toxic to plants. Not toxic to bees in normal conditions of use. |

| Carbaryl (63-25-2) | |
|---------------------------|-------------------------------------|
| Ecology - soil | Not toxic to plants. Toxic to bees. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

DOT: NA1993, Combustible liquid, n.o.s., III

Freight Description – In our currently available sizes, this product is not regulated for transport for containers less than 119 gallons.

SECTION 15: Regulatory information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING: KEEP OUT OF REACH OF CHILDREN

Causes substantial but temporary eye injury.

Causes skin irritation.

Harmful if swallowed.

Harmful if inhaled.

15.1. US Federal regulations

No additional information available

15.2. US State regulations

| Cumene (98-82-8) | | | | |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| Yes | | | | |

| Captan (133-06-2) | | | | |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| Yes | | | | |

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Captan (133-06-2)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

| | |
|-------------------------------------|-------------------------------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Inhalation:vapors) | Acute toxicity (inhalation:vapors) Category 4 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| Eye Irrit. 2 | Eye corrosion/irritation Category 2 |
| Carc. 2 | Carcinogen Category 2 |
| STOT SE 3 | Specific Target Organ Toxicity – Single Exposure Category 3 |
| H226 | Flammable liquid and vapor |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | Causes respiratory tract irritation. |
| H351 | Suspected of causing cancer. |

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.