

Safety Data Sheet

TWinline

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Version: 8.0

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1. Identification

Product identifier used on the label

TWinline

Recommended use of the chemical and restriction on use

Recommended use*: crop protection product, fungicide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 212469
EPA Registration number: 7969-247
Molecular formula: C₁₉H₁₈ClN₃O₄ ; C₁₇H₂₂ClN₃O
Chemical family: strobilurine, conazoles
Synonyms: Pyraclostrobin + Metconazole

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

| | | |
|------------|-----------------------|-------------------|
| Asp. Tox. | 1 | Aspiration hazard |
| Acute Tox. | 3 (oral) | Acute toxicity |
| Acute Tox. | 3 (Inhalation - mist) | Acute toxicity |

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| | | |
|-----------------|------------------|--|
| Eye Dam./Irrit. | 2A | Serious eye damage/eye irritation |
| Carc. | 2 | Carcinogenicity |
| Repr. | 2 (unborn child) | Reproductive toxicity |
| Aquatic Acute | 1 | Hazardous to the aquatic environment - acute |
| Aquatic Chronic | 1 | Hazardous to the aquatic environment - chronic |

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

| | |
|-------------|---|
| H319 | Causes serious eye irritation. |
| H304 | May be fatal if swallowed and enters airways. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging the unborn child. |
| H301 + H331 | Toxic if swallowed or if inhaled |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves, protective clothing and eye protection or face protection. |
| P273 | Avoid release to the environment. |
| P261 | Avoid breathing mist. |
| P201 | Obtain special instructions before use. |
| P280 | Wear eye protection. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P264 | Wash contaminated body parts thoroughly after handling. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P311 | Call a POISON CENTER or physician. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or physician. |
| P308 + P313 | IF exposed or concerned: Get medical attention. |
| P330 | Rinse mouth |
| P391 | Collect spillage. |
| P331 | Do NOT induce vomiting. |

Precautionary Statements (Storage):

| | |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

Precautionary Statements (Disposal):

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

Hazards not otherwise classified

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Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 45 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 60 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 60 % Inhalation - mist

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Metconazole

CAS Number: 125116-23-6
Content (W/W): 7.41 %
Synonym: No data available.

Pyraclostrobin

CAS Number: 175013-18-0
Content (W/W): 12.0 %
Synonym: No data available.

Propylene carbonate

CAS Number: 108-32-7
Content (W/W): 15.0 - 20.0%
Synonym: 4-Methyl-1,3-dioxolan-2-one; Propylene carbonate

solvent naphtha

CAS Number: 64742-94-5
Content (W/W): 10.0 - 15.0%
Synonym: Solvent naphtha, petroleum, heavy arom.

Naphthalene, 2-methyl-

CAS Number: 91-57-6
Content (W/W): 1.0 - 3.0%
Synonym: No data available.

Naphthalene, 1-methyl-

CAS Number: 90-12-0
Content (W/W): 1.0 - 3.0%
Synonym: No data available.

naphthalene

CAS Number: 91-20-3
Content (W/W): 1.0 - 3.0%
Synonym: Naphthalin

4. First-Aid Measures

Description of first aid measures

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General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far
Hazards: Vomiting may cause aspiration pneumonia due to the ingredients.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides, organochloric compounds
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

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Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

naphthalene

ACGIH TLV TWA value 10 ppm ; Skin Designation ;
Danger of cutaneous absorption
Skin Designation ;
Danger of cutaneous absorption

solvent naphtha

ACGIH TLV TWA value 200 mg/m3 Non-aerosol (total
hydrocarbon vapor);
Application restricted to conditions in which there
are negligible aerosol exposures.
Skin Designation Non-aerosol (total
hydrocarbon vapor);
Danger of cutaneous absorption

Naphthalene, 1-methyl-

ACGIH TLV TWA value 0.5 ppm ; Skin Designation ;
Danger of cutaneous absorption

Naphthalene, 2-methyl-

ACGIH TLV TWA value 0.5 ppm ; Skin Designation ;
The substance can be absorbed through the skin.
Skin Designation ;
Danger of cutaneous absorption

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

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Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

| | | |
|---|---|--------------|
| Form: | liquid | |
| Odour: | characteristic, of the solvent contained in the product | |
| Odour threshold: | Not determined since toxic by inhalation. | |
| Colour: | yellow, clear | |
| pH value: | approx. 4.5 - 6.5 (1 %(m), 25 °C) (as an emulsion) | |
| Freezing point: | approx. -20 °C Information applies to the solvent. | |
| Boiling range: | 200 - 320 °C Information applies to the solvent. | |
| Flash point: | 113 °C | (ASTM D3278) |
| Flammability: | not applicable | |
| Autoignition: | approx. 491 °C Information applies to the solvent. | |
| Vapour pressure: | approx. < 0.1 kPa (25 °C) Information applies to the solvent. | |
| Density: | approx. 1.08 g/cm ³ (20 °C) approx. 9.0130 Lb/USg (68 °F) | |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable | |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. | |
| Viscosity, dynamic: | 52 mPa.s (20 °C) | |
| Viscosity, kinematic: | approx. 18.5 mm ² /s (40 °C) | |
| Solubility in water: | emulsifiable, insoluble | |
| Evaporation rate: | not applicable | |
| Other Information: | If necessary, information on other physical and chemical parameters is indicated in this section. | |

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10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of high toxicity after single ingestion. Of high toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat (female)

Value: > 50 - < 300 mg/kg

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Inhalation

Type of value: LC50
Species: rat
Value: 0.95 mg/l
Exposure time: 4 h
An aerosol was tested.

Dermal

Type of value: LD50
Species: rat
Value: > 5,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

The available information is not sufficient for the evaluation of specific target organ toxicity.

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. Causes substantial but temporary eye injury.

Skin

Species: rabbit
Result: Slightly irritating.

Eye

Species: rabbit
Result: Irritant.

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Pyraclostrobin

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Information on: Metconazole

Assessment of repeated dose toxicity: Adaptive effects were observed after repeated exposure in animal studies.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

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Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metconazole

Assessment of carcinogenicity: In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.

Information on: solvent naphtha

Assessment of carcinogenicity: Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: naphthalene

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metconazole

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Other Information

Misuse can be harmful to health.

Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

Toxicity to fish

LC50 (96 h) 0.15 mg/l, *Lepomis macrochirus* (static)

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Aquatic invertebrates

EC50 (48 h) 0.08675 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants

EC50 (72 h) 6.9 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

Assessment of terrestrial toxicity

With high probability not acutely harmful to terrestrial organisms.

Other terrestrial non-mammals

Information on: pyraclostrobin

LD50 > 2,000 mg/kg, *Colinus virginianus*

Colinus virginianus

LC50, *Anas platyrhynchos*

LD50 > 100 ug/bee, *Apis mellifera*

Bioaccumulative potential

Bioaccumulation potential

Information on: pyraclostrobin

Bioconcentration factor: 379 - 507, *Oncorhynchus mykiss* (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

Information on: metconazole

Bioconcentration factor: 51 - 80, *Lepomis macrochirus*

Does not accumulate in organisms.

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: metconazole

The substance will not evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

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13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:

This product is not regulated by RCRA.

14. Transport Information

Land transport

USDOT

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2902 |
| Hazard label: | 6.1, EHSM |
| Proper shipping name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (contains SOLVENT NAPHTHA, PYRACLOSTROBIN, METCONAZOLE) |

Sea transport

IMDG

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2902 |
| Hazard label: | 6.1, EHSM |
| Marine pollutant: | YES |
| Proper shipping name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (contains SOLVENT NAPHTHA, PYRACLOSTROBIN, METCONAZOLE) |

Air transport

IATA/ICAO

| | |
|-----------------------|--|
| Hazard class: | 6.1 |
| Packing group: | III |
| ID number: | UN 2902 |
| Hazard label: | 6.1 |
| Proper shipping name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (contains SOLVENT NAPHTHA, PYRACLOSTROBIN, METCONAZOLE) |

15. Regulatory Information

Federal Regulations

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Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

CAS Number

91-20-3

Chemical name

naphthalene

CERCLA RQ

1000 LBS

100 LBS

CAS Number

108-88-3

91-20-3; 123-91-1;

1678-91-7; 77-78-

1

75-21-8

Chemical name

Toluene

naphthalene; 1,4-dioxane; Cyclohexane, ethyl-;

dimethyl sulphate

Ethylene Oxide

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 1 Special:

Labeling requirements under FIFRA

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

WARNING:

Causes substantial but temporary eye injury.

May be fatal if swallowed.

CAUSES SKIN IRRITATION.

HARMFUL IF ABSORBED THROUGH SKIN.

HARMFUL IF INHALED.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of dusts/mists/vapours.

Wash thoroughly after handling.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2021/01/14

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