SAFETY DATA SHEET
PRODUCTION AGRISCIENCE (AUSTRALIA) LIMITED

Product name: TALENDO® Fungicide **Issue Date:** 14.09.2021

PRODUCTION AGRISCIENCE (AUSTRALIA) LIMITED encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container.

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product name: TALENDO® Fungicide

Recommended use of the chemical and restrictions on use
Identified uses: End use fungicide product

COMPANY IDENTIFICATION
PRODUCTION AGRISCIENCE (AUSTRALIA) LIMITED
LEVEL 9, 67 ALBERT AVENUE
CHATSWOOD NSW 2067
AUSTRALIA

Customer Information Number: 1800-700-096
aucustomerservice@corteva.com

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: +61 2 9474 7350
Local Emergency Contact: 1800-370-754
For advice, contact a doctor (at once) or the Australian Poisons Information Centre: 131 126
Transport Emergency Only Dial 000

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification

Flammable liquids	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 1
Carcinogenicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements
Hazard pictograms

Signal word: **DANGER!**

Hazard statements
Combustible liquid.
Causes skin irritation.
Causes serious eye damage.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Precautionary statements
Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Wash skin thoroughly after handling.
Wear protective gloves/ eye protection/ face protection.
Use personal protective equipment as required.

Response
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Collect spillage.

Disposal
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
Causes nose and throat irritation

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

Component	CASRN	Concentration
Proquinazid	189278-12-4	20.5 %
Other Ingredients		79.5%

SECTION 4: FIRST AID MEASURES

Description of first aid measures
If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move to fresh air. Artificial respiration and/or oxygen may be necessary. If symptoms continue. Get medical attention.

Skin contact: Take off contaminated clothing. Wash contaminated clothing before re-use.

Eye contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control centre or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed
Notes to physician: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Hazchem code: •3Z

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO2).

Unsuitable extinguishing media: High volume water jet, (contamination risk)

Special hazards arising from the substance or mixture
Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Unusual Fire and Explosion Hazards: None known.

Advice for firefighters
Fire Fighting Procedures: If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Do not allow run-off from fire-fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment. Use personal protective equipment.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12: Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Methods and materials for containment and cleaning up: Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

Precautions for safe handling May irritate the nose and throat. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. See Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. DO NOT store for prolonged periods in direct sunlight. Keep away from heat and sources of ignition.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters
No occupational exposure limit values are applicable.

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls
Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Individual protection measures
Eye/face protection: Wear protective eyewear to prevent contact with this substance.
Skin protection: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.
Hand protection: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other

chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/ specifications provided by the glove supplier. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Other protection: Wear clean, body-covering clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. End users of this product should follow label instructions for personal protection when using this product.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator.

Other Information: Selection and use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian/New Zealand Standards, including:
AS/NZS 1336: Recommended practices for occupational eye protection.
AS/NZS 1337: Personal eye protection - Eye and face protectors for occupational applications.
AS/NZS 1715: Selection, use and maintenance of respiratory protective equipment.
AS/NZS 2161: Occupational protective gloves.
AS/NZS 2210: Occupational protective footwear.
AS/NZS 4501: Occupational protective clothing Set

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Liquid
Colour	Brown
Odour	Sweet ester-like
Odour Threshold	No data available
pH	6.2 (10 g/l) (20 °C)
Melting point/range	No test data available
Freezing point	No test data available
Boiling point (760 mmHg)	No test data available
Flash point – closed cup	74 °C
Evaporation Rate (Butyl Acetate = 1)	No information available
Flammability (solid, gas)	Not auto-flammable
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour Pressure	No information available
Relative Vapour Density (air = 1)	No information available
Relative Density (water = 1)	0.9758
Water solubility	Emulsifiable

Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	285 °C
Decomposition temperature	No information available
Kinematic Viscosity	3.79 mm2/s (20 °C)
Explosive properties	No data available
Oxidizing properties	This product is not oxidising
Molecular weight	No information available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical stability: Stable at normal temperatures and storage conditions. See Storage, Section 7.

Possibility of hazardous reactions: No information available.

Conditions to avoid: To avoid thermal decomposition, do not overheat. Protect from frost.

Incompatible materials: No materials to be specially mentioned.

Hazardous decomposition products: No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity
As product: LD50, Rat > 2,000 mg/kg. Fixed dose method. Internal study report.

Acute dermal toxicity
As product: LC50, Rat > 5,000 mg/kg. PECD test guideline 402. Internal study report.

Acute inhalation toxicity
Proquinazid: LC50 /4 h/Rat > 5.2 mg/l

Skin corrosion/irritation
As product: Rabbit: Irritating to skin. OECD test guideline 404. Internal study report.

Serious eye damage/eye irritation
As product: Rabbit: Risk of serious damage to eyes.

Sensitization
As product: Guinea pig: Maximisation test. Animal test did not cause sensitization by skin contact. US EPA test guideline OPPTS 870.2600. Internal study report.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
As product: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Carcinogenicity
For the product: Animal experiments showed a statistically significant number of tumours. Limited evidence of a carcinogenic effect.

Reproductive toxicity
For the product: Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

Mutagenicity
For the product: Did not show mutagenic effects in animal experiments. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Aspiration Hazard
No aspiration toxicity classification.

Other
Proquinazid

Repeated dose toxicity: Oral - feed/Rat/male
NOAEL: 30 mg/kg
Method: OECD Test Guideline 408
Target Organs: Thyroid
Information source: Internal study report

Oral - feed/Rat/female
NOAEL: 100 mg/kg
Method: OECD Test Guideline 408
Target Organs: Thyroid
Information source: Internal study report

Oral - feed/Rat/male
NOAEL: 200 mg/kg
Method: OECD Test Guideline 408
Target Organs: Nervous system
Information source: Internal study report

Oral - feed/Rat/female
NOAEL: 600 mg/kg
Method: OECD Test Guideline 408
Target Organs: Nervous system
Information source: Internal study report

Oral - feed/Rat
Reduced body weight gain, Liver effects, Kidney effects, Thyroid effects, Abnormal serum enzyme levels, Organ weight changes, altered haematology

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Ecotoxicity

Acute and prolonged toxicity to fish
As product: LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.23 mg/l. OECD test guideline 203. Internal study report

Acute toxicity to aquatic invertebrates
Static test/EC50/48 h/Daphnia (water flea): 1.8 mg/l. OECD Test Guideline 202. Internal study report.

Acute toxicity to aquatic plants
EbC50/72 h/Pseudokirchneriella subcapitata (microalgae): 1.4 mg/l. OECD Test Guideline 201. Internal study report

Chronic toxicity to fish
Early Life-Stage/NOEC/Oncorhynchus mykiss (rainbow trout): 0.0030 mg/l
Information source: Internal study report

Acute toxicity to aquatic invertebrates
NOEC/Daphnia magna (Water flea): 0.0018 mg/l
Information source: Internal study report

Persistence and degradability
As product: Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulative potential
As product: Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil
No information available

Other adverse effects
See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Do not re-use empty containers. Triple or preferably pressure rinse containers before disposal. Add rinsing's to spray tank.DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture, and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with

applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION

ADG

Proper shipping name	Not applicable
UN number	Not applicable
Class	Not applicable
Packing group	Not applicable

Classification for SEA transport (IMO-IMDG):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Proquinazid)
UN number	UN 3082
Class	9
Packing group	III
Marine pollutant	Proquinazid
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Proquinazid)
UN number	UN 3082
Class	9
Packing group	III

Hazchem Code: •3Z

Further information:
Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the Australian Code for the Transport of Dangerous Goods (ADG). This applies when transported by road or rail in packaging's that do not incorporate a receptacle exceeding 500 kg(L) or IBCs per ADG Special Provision AU01.

Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197.

This information is not intended to convey all specific regulatory or operational requirements/ information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

Poison Schedule: S6
APVMA Approval Number: 64165

16. OTHER INFORMATION

Revision
Identification Number: 130000000506 / A143 / Issue Date: 14.09.2021 / Replaces: 6.01.2021
Code: B11640448 / DPX-KQ926 200EC
Sections amended: 5, 14

Full text of other abbreviations
AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

PRODUCTION AGRISCIENCE (AUSTRALIA) LIMITED urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary

for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.