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SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: THIOVIT JET
Design Code: A8456E
Recommended Use: Fungicide

Company Details: Syngenta Crop Protection Limited

Address: Level 4,

60 Parnell Road,

Parnell

AUCKLAND 1052 NEW ZEALAND

Telephone number: (weekdays) 09 306 1500 Emergency Telephone number: (24 Hours) 0800 734 607

National Poisons & Hazchem

Information Centre: 0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

Hazard classification: 9.1D

Priority Identifier: Not required

Secondary Identifiers: 9.1D = Harmful to aquatic organisms.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:		
Chemical Identity of ingredients:		
Ingredient	CAS no.	Content (% w/w)
Sulfur	7704-34-9	80
Other ingredients determined not to be hazardous	-	to 100%

Section 4: FIRST AID MEASURES

Description of First Aid measures:

General Advice: For advice contact the National Poisons Centre on 0800 POISON

(0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to

mouth. Obtain medical attention.

If inhaled: Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest.

Call a Doctor or the National Poisons Centre immediately.

In case of skin contact: Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

Remove contact lenses (if present).

Immediate medical attention is required.

If swallowed: If swallowed seek medical advice immediately and show the container

or label.

DO NOT induce vomiting.

Important symptoms and effects, both acute and delayed:

Symptoms: Nonspecific

No symptoms known or expected.

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote available.

Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Small fires:

Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide. Large Fires:

Alcohol resistant foam or water spray.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture:

Specific hazards during fire-

fighting:

As the product contains combustible organic components, fire will

produce dense black smoke containing hazardous products of

combustion (see section 10)

Exposure to decomposition products may be a hazard to health.

Advice for firefighters:

Further information:

Special protective equipment for

firefighters:

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.

Cool closed containers exposed to fire with water spray.

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8.

Avoid dust formation.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform respective

authorities.

Methods and material for containment and cleaning up:

Contain spillage, pick up with an electrically protected vacuum cleaner

or by wet-brushing and transfer to a container for disposal according to

local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed air.

Clean contaminated surface thoroughly.

Reference to other sections: Refer to disposal considerations listed in Section 13.

Refer to protective measures listed in sections 7 and 8.

Section 7: HANDLING AND STORAGE

Precautions for Safe handling:

Advice on safe handling: This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion.

Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.

Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

In general personnel handling this material and all conducting equipment should be electrically earthed or grounded.

Consideration should be given to avoiding the use of insulating plastics. Bulk bags (FIBC) used to contain this material should be Type C or Type D. Type C bags must be electrically grounded before powder is charged to or discharged from the bag. Bag filters used to scavenge dust from material handling processes should be conductive and electrically grounded during use. If metal or fibre drums are used to contain this product, make certain that the metal parts are bonded to the filling equipment and grounded.

Explosion protection is unlikely to be possible due to the increased violence of the dust cloud explosion.

This material could become charged under certain conditions such as pneumatic conveying.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities:

Requirements for storage area and containers:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Specific end use(s)
Specific use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: Contains no substances with occupational exposure limit values.

Exposure controls

Engineering measures: Containment and/or segregation is the most reliable technical

protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in

use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal Protective Protection:

Eye protection: No special protective equipment required.

Hand protection:

Material: Waterproof gloves

Skin and body protection: Choose body protection in relation to its type, to the concentration and

amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate: Cotton overalls.

Respiratory protection:No personal respiratory protective equipment normally required.

When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Protective measures: The use of technical measures should always have priority over the

use of personal protective equipment.

When selecting personal protective equipment, seek appropriate

professional advice.

Personal protective equipment should be certified to appropriate

standards.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Granules

Colour: Light brown to dark brown

Odour: Characteristic
Odour threshold: No data

pH value 7 - 12, concentration: 1% w/v

Melting point / freezing point:
Initial boiling point and boiling range:
No data
Flash point:
No data

Flammability (solid, gas): May form combustible dust concentrations in air.

Upper flammability / explosive limits:

Lower flammability / explosive limits

No data

Vapour pressure:

No data

Vapour Density:

No data

Density:

No data

Bulk density:

1.026 g/cm³

Solubility in other solvents:

No data

Partition co-efficient: n-octanol / water: log Pow: 5.68 (20°C)

Autoignition temperature > 140°C

Decomposition temperature: No data

Dynamic viscosity: No data

Explosive properties: Not explosive

Oxidising properties: Not oxidising

Surface tension: 54.8 mN/m (20°C)

Self-heating substances: The substance or mixture is not classified as self

heating

Section 10: STABILITY AND REACTIVITY

Reactivity:

See Section: "Possibility of Hazardous Reactions".

Chemical Stability:

The product is stable when used in normal conditions.

Possibility of Hazardous Reactions:

No hazardous reactions by normal handling and storage according to provisions.

Conditions to Avoid

No decomposition if used as directed.

Incompatible Materials:

No substances are known which lead to the formation of hazardous substances or thermal reactions.

Hazardous Decomposition Products:

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous combustion products: sulfur oxides, carbon dioxide, carbon monoxide.

Section 11: TOXICOLOGICAL INFORMATION

HSNO Classifications:

Acute toxicity (product)

None set

Swallowed: LD₅₀ >5000 mg/kg (rat, male and female)

Dermal absorption: LD₅₀ >2000 mg/kg (rat, male and female)

Inhaled: LC₅₀ (4 h) >2.247 mg/L (rat, male and female)

Aspiration hazard: Not classified

Respiratory irritation: Not classified

Skin corrosion / irritation: NON-IRRITANT (rabbit)

Eye damage / irritation: IRRITANT (rabbit)

Respiratory or Skin NOT A SKIN SENSITISER (quinea pigs - Buehler test)

Sensitisation:

Chronic / Long Term Effects (active ingredient)

Germ cell mutagenicity: Animal testing did not show any mutagenic effects.

Carcinogenicity: Weight of evidence does not support classification as a carcinogen, In a two-year

feeding study of mice, an oncogenic effect was seen in the livers of males and females. The observed tumors do not appear to be relevant for humans.

Reproductive toxicity: No toxicity to reproduction.

Specific Organ toxicity: Single exposure:

The substance or mixture is not classified as specific target organ toxicant single

exposure.

Repeated exposure:

The substance or mixture is classified as specific target organ toxicant, repeated exposure, Class 6.9B. May cause organ damage from repeated oral exposure at

high doses.

Narcotic Effects: Not classified.

Section 12: ECOLOGICAL INFORMATION

HSNO Classifications: 9.1D = Harmful to aquatic organisms Ecotoxicity Effects - product Acute toxicity to fish: LC_{50} (96 h) = >5000 mg/L (*Cyprinus carpio* (Carp)) Toxicity to daphnia and other aquatic invertebrates: EC_{50} (48h) = >1000 mg/L (*Daphnia magna* (water flea)) Toxicity to algae: EC₅₀ (72 h)= 0.091 mg/L (Ankistrodesmus bibraianus (green algae)) Ecotoxicity Effects -**Toxicity to Birds:** LD₅₀ = >5620 mg/kg diet (bobwhite quail) (product - 95% WP) Toxicity to soil dwelling organisms: LC_{50} (14 days) = >2000 mg/kg (earthworms) (product)

Persistence and degradability: **Biodegradability:**

Not readily biodegradable.

 LD_{50} (oral) = >100 µg/bee (similar product)

Stability in water: No data.

Bioaccumulative potential:

Bioaccumulation: Does not bioaccumulate.

Mobility in soil:

Toxicity to Bees:

Distribution among environmental

Moderately mobile in soils.

compartments:

Stability in soil: Not persistent in soil.

Other adverse effects:

Results of PBT and vPvB This substance is not considered to be persistent, bioaccumulating assessment (product):

and toxic (PBT).. This substance is not considered to be very

persistent and very bioaccumulating (vPvB).

Section 13: DISPOSAL CONSIDERATIONS

DO NOT contaminate ponds, waterways or ditches with chemical or **Product Disposal:**

used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the

substance so that it is rendered no longer hazardous.

Ensure the container is empty. Triple rinse empty container and add **Container Disposal:**

rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (NZS 5433) Not classified as a dangerous good.

Sea (IMDG-Code) Not classified as a dangerous good.

Air (IATA) Not classified as a dangerous good.

Section 15: REGULATORY INFORMATION

HSNO Approval Number: HSR000816

Tolerable Exposure Limit or No TEL or EEL values are set for this substance at this time

Environmental Exposure Limit: Required Regulatory Controls:

> Certified handler: Nο Tracking: Nο **Record Keeping:** No

ACVM Registration: P5819

ACVM Controls: See <u>www.foodsafety.govt.nz/industry/acvm</u> for registration conditions.

International Agreements related to the substance (eg. Montreal

Protocol. Stockholm Convention or Rotterdam Convention):

Not applicable

Section 16: OTHER INFORMATION

Date of SDS Preparation / Review:	24 February 2023
Version number of SDS:	6.0

Key / Legend to abbreviations and acronyms used:

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;

CPR - Controlled Products Regulations;

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 ActivityRelationship;

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;

WES - Workplace Exposure Standard (Worksafe NZ);

WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the test.

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